STR-7035

USA Model
Canada Model
AEP Model
E Model
UK Model

FM STEREO/FM-AM RECEIVER

SPECIFICATIONS

FM SECTION

Frequency Range:	87.5 – 108 MHz
Intermediate Frequency:	10.7 MHz
Antenna Terminals:	300 ohm balanced 75 ohm unbalanced
Sensitivity:	2.2 μV (6.5 dB), IHF 1.7 μV (4.5 dB), S/N = 26 dB
Image Rejection:	55 dB
IF Rejection:	90 dB
Spurious Rejection:	78 dB
AM Suppression:	55 dB
Capture Ratio:	1.5 dB
Selectivity:	60 dB, IHF
S/N Ratio:	68 dB
Harmonic Distortion:	Mono 0.3 % at 400 Hz, 75 kHz deviation (100 %) mod Stereo 0.8 % at 400 Hz, 75 kHz deviation (100 %) mod
Stereo Separation:	35 dB at 400 Hz
Frequency Response:	30 Hz – 15 kHz $^{+0}_{-2}$ dB

AM SECTION

Frequency Range:	530 – 1,605 kHz
Intermediate Frequency:	455 kHz (USA, Canada Model) 468 kHz (AEP, E and UK Model)
Antenna:	Built-in ferrite-bar antenna and external antenna terminal
Sensitivity:	250 μV/m (48 dB/m), built-in antenna 30 μV (29 dB), external antenna
Image Rejection:	56 dB at 1,000 kHz
IF Rejection:	40 dB at 1,000 kHz
S/N Ratio:	50 dB
Harmonic Distortion:	0.8 %

— continues to page 2 —

SONY®
SERVICE MANUAL

AMPLIFIER SECTION

Continuous RMS Power Output: At 40 Hz – 20 kHz
(Less than 0.8 % THD, both channel driven simultaneously)
24 + 24 watts (8 ohms)
At 1 kHz
26 + 26 watts (8 ohms)
28 + 28 watts (4 ohms)
According to DIN 45500
24 + 24 watts (8 ohms)
25 + 25 watts (4 ohms)

Dynamic Power Output: 65 watts (8 ohms)
(IHF constant power supply method) 80 watts (4 ohms)

Power Bandwidth (IHF): 10 Hz – 25 kHz

Harmonic Distortion: Less than 0.8 % at rated output
Less than 0.1 % at 1 watt output

IM Distortion: Less than 0.8 % at rated output
(60 Hz: 7 kHz = 4:1) Less than 0.1 % at 1 watt output

Residual Noise: Less than 0.08 μW

Damping Factor: 25 at 1 kHz, 8 ohms

Input Sensitivity, Impedance and S/N Ratio:

Input	Sensitivity	Impedance	S/N	Weighting Network
PHONO	2.5 mV	47 kΩ	60 dB	B
MIC	2 mV	47 kΩ	60 dB	B
AUX	250 mV	100 kΩ	70 dB	A
TAPE 1, 2 REC/PB (input)	250 mV	100 kΩ	80 dB	A

Measured with specified RMS power output into 8-ohm loads (both channels driven simultaneously) at 1 kHz.

Output Voltage and Impedance:

Output	Voltage	Impedance	Input Level	
REC OUT 1, 2	250 mV	10 kΩ	PHONO	2.5 mV
REC/PB (output)	30 mV	82 kΩ	MIC	2 mV
			AUX, TAPE 1, 2 REC/PB (input)	250 mV

Headphone: Accepts 8 Ω – 10 kΩ headphones

Speaker: 4 – 16 Ω speakers are suitable

Frequency Response: PHONO RIAA equalization curve ±2 dB
MIC 30 Hz – 10 kHz $^{+0}_{-3}$ dB
AUX, TAPE 1, 2 / REC/PB (input) } 30 Hz – 40 kHz $^{+0}_{-3}$ dB

Tone Control: BASS; ±10 dB at 100 Hz
TREBLE; ±10 dB at 10 kHz

High Filter: 6 dB/oct. above 5 kHz

Loudness: +6 dB at 50 Hz, +4 dB at 10 kHz
(Volume control attenuation 30 dB)

GENERAL

Power Requirements: 120 volts ac, 60 Hz (USA, Canada Model)
110, 127, 220, 240 volts ac, 50/60 Hz
(AEP, UK and E Model)

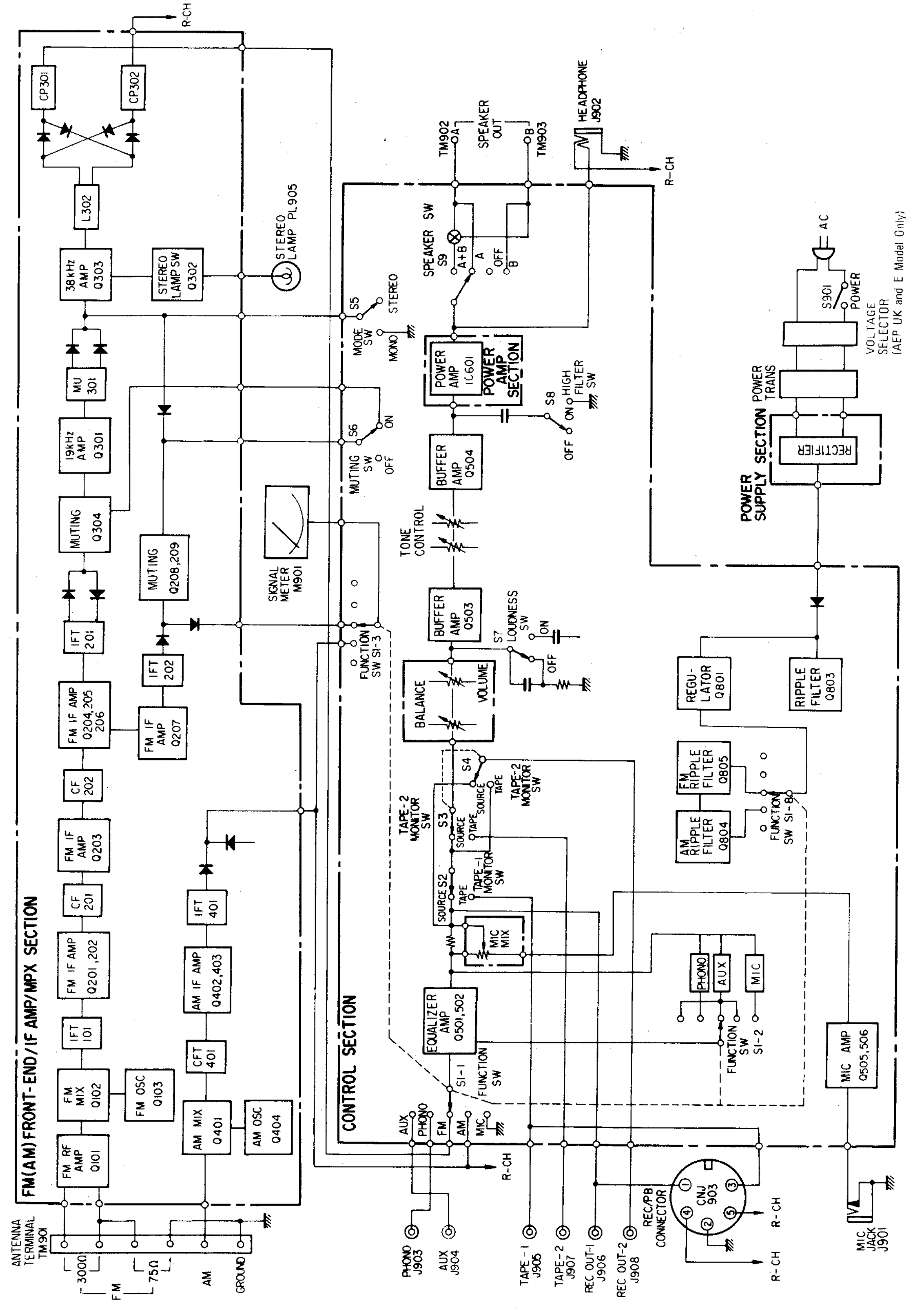
Power Consumption: 80 watts (USA Model)
120 watts (Canada Model)
230 watts (AEP, UK and E Model)

Ac Outlets: 2 unswitched, total 300 watts

Dimensions: 427 (w) x 149 (h) x 340 (d) mm
16⅞ (w) x 5⅞ (h) x 13⅜ (d) inches } (USA, Canada Model)
427 (w) x 149 (h) x 345 (d) mm
16⅞ (w) x 5⅞ (h) x 13⅝ (d) inches } (AEP, UK and E Model)
including projecting parts and controls

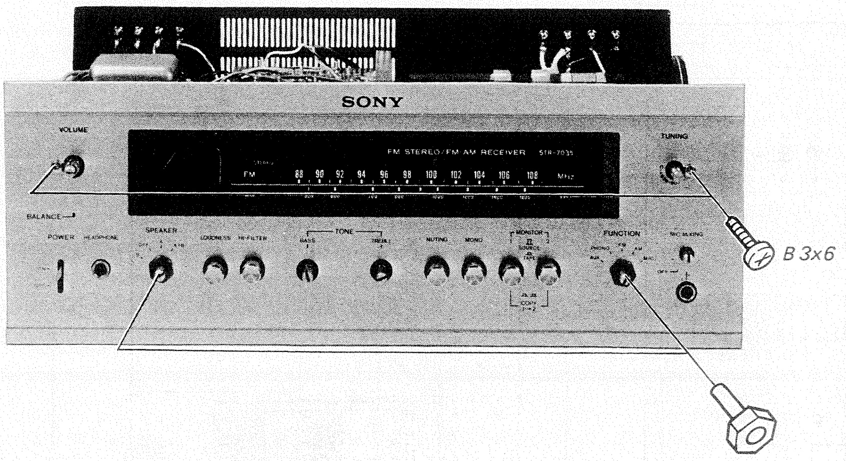
Weight: Approx. 8.6 kg (18 lb 15 oz), net
Approx. 11.1 kg (24 lb 8 oz), with shipping carton

SECTION 1
BLOCK DIAGRAM

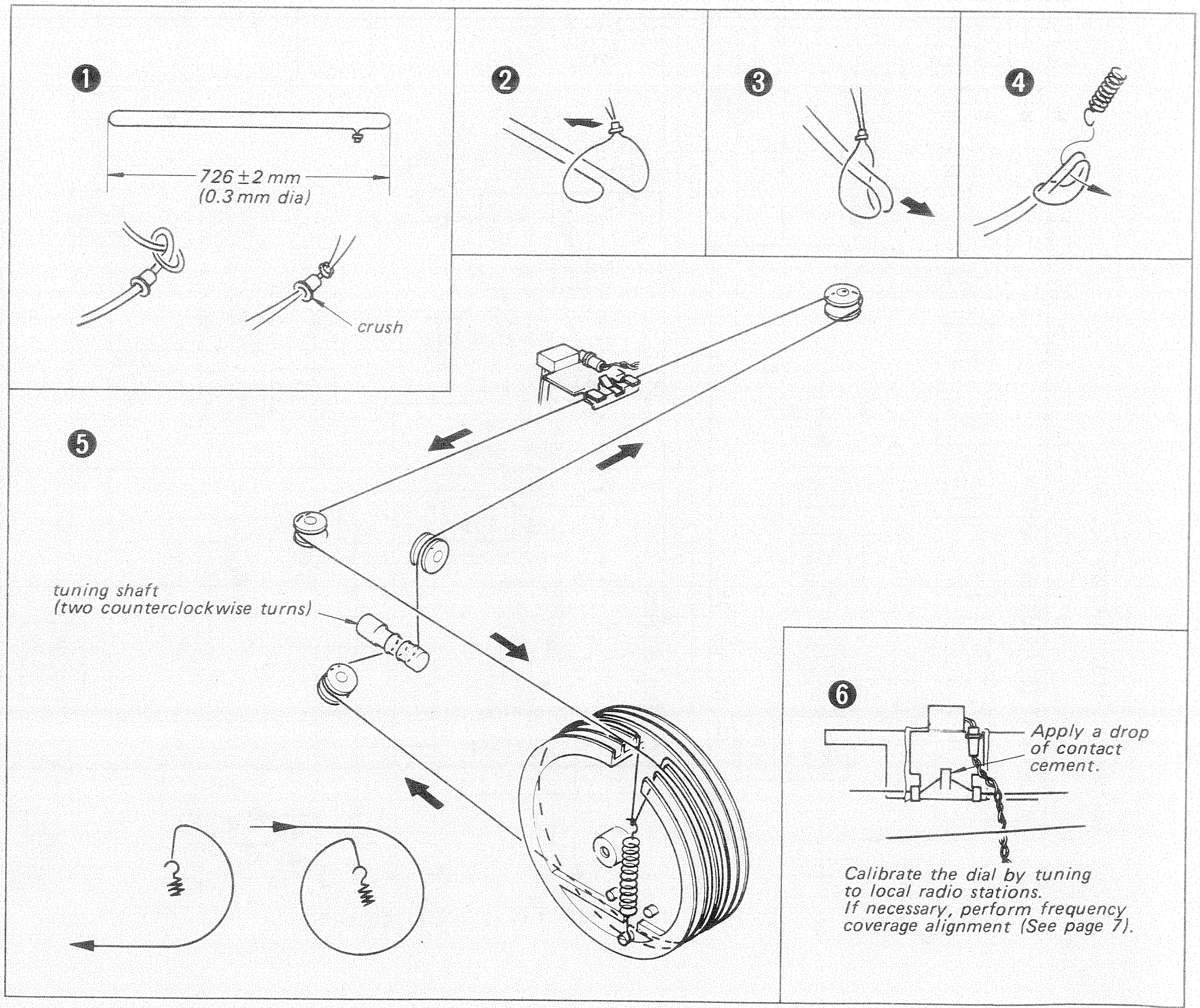

FM(AM) FRONT-END/IF AMP/MPX SECTION
ANTENNA TERMINAL TM901
300Ω
75Ω
FM
AM
GROUND
FM RF AMP Q101
FM MIX Q102
FM OSC Q103
IFT 101
FM IF AMP Q201,202
CF 201
FM IF AMP Q203
CF 202
FM IF AMP Q204,205 206
FM IF AMP Q207
IFT 201
IFT 202
MUTING Q304
MUTING Q208,209
19kHz AMP Q301
MU 301
38kHz AMP Q303
STEREO LAMP SW Q302
STEREO LAMP PL905
L302
CP301
CP302
R-CH
AM MIX Q401
AM OSC Q404
CFT 401
AM IF AMP Q402,403
IFT 401
SIGNAL METER M901
CONTROL SECTION
MODE SW
S5
STEREO
MONO
MUTING SW
S6
ON
OFF
FUNCTION SW S1-3
EQUALIZER AMP Q501,502
S1-1
FUNCTION SW
AUX
PHONO
FM
AM
MIC
SOURCE
S2
TAPE
TAPE-1 MONITOR SW
S3
TAPE-2 MONITOR SW
S4
MIC MIX
BALANCE
VOLUME
BUFFER AMP Q503
S7
LOUDNESS SW
TONE CONTROL
BUFFER AMP Q504
S8
HIGH FILTER SW
POWER AMP IC601
POWER AMP SECTION
SPEAKER SW
S9
A+B
A
OFF
B
TM902
SPEAKER OUT
TM903
HEADPHONE J902
PHONO J903
AUX J904
TAPE-1 J905
TAPE-2 J907
REC OUT-1 J906
REC OUT-2 J908
REC/PB CONNECTOR
CNJ 903
PHONO
AUX
MIC
FUNCTION SW S1-2
MIC AMP Q505,506
MIC JACK J901
AM RIPPLE FILTER Q804
FM RIPPLE FILTER Q805
FUNCTION SW S1-8
REGU-LATOR Q801
RIPPLE FILTER Q803
POWER SUPPLY SECTION
RECTIFIER
POWER TRANS
VOLTAGE SELECTOR (AEP UK and E Model Only)
S301
POWER
AC

SECTION 2
DISASSEMBLY AND REPLACEMENT

2-1. FRONT PANEL REMOVAL



2-2. DIAL CORD STRINGING


❶
726±2 mm
(0.3 mm dia)
crush
❷
❸
❹
❺
tuning shaft
(two counterclockwise turns)
❻
Apply a drop of contact cement.

Calibrate the dial by tuning to local radio stations.
If necessary, perform frequency coverage alignment (See page 7).

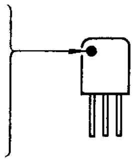
SECTION 3
ALIGNMENT AND ADJUSTMENT

3-1. FM IF AND DISCRIMINATOR ALIGNMENT (See p.6 for the procedure.)

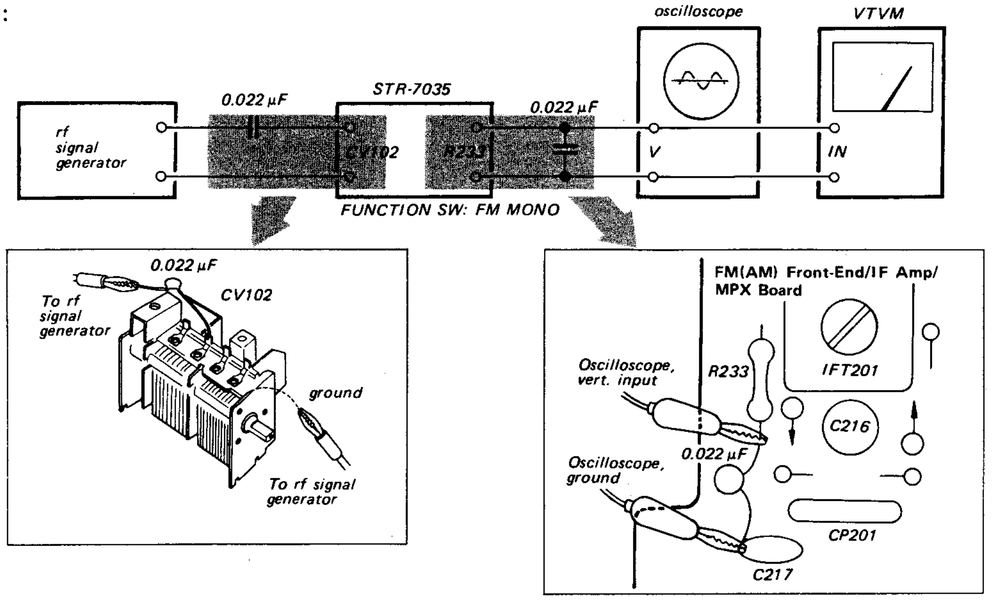
The ceramic filters used in the fm i-f circuit are color coded according to their specified center frequencies.

FM I-F CERAMIC FILTERS

Part No.	Specified Center Freq.	Color
1-527-220-11	10.70 MHz	red
1-527-220-21	10.67 MHz	blue
1-527-220-31	10.73 MHz	orange
1-527-220-41	10.64 MHz	black
1-527-220-51	10.76 MHz	white



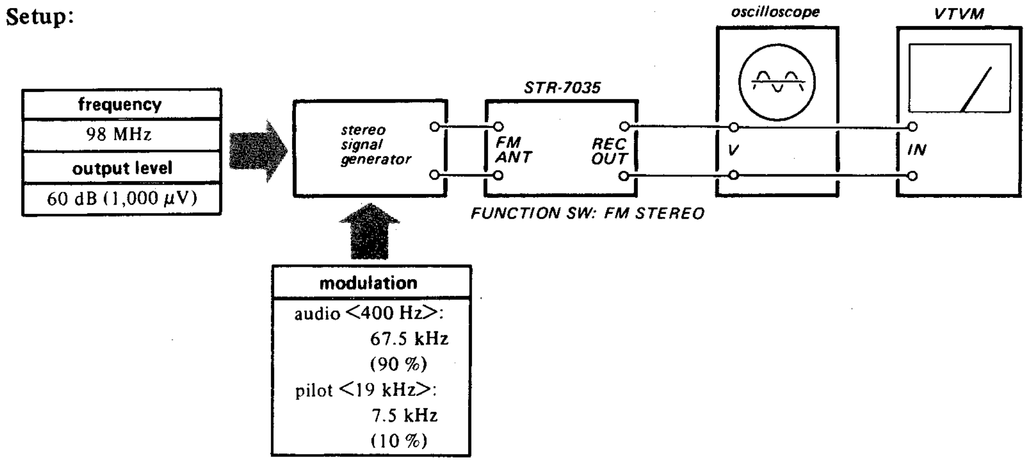
Setup:



oscilloscope
VTVM
0.022 μF
STR-7035
0.022 μF
rf signal generator
CV102
R233
V
IN
FUNCTION SW: FM MONO
0.022 μF
CV102
To rf signal generator
ground
To rf signal generator
FM(AM) Front-End/IF Amp/ MPX Board
Oscilloscope, vert. input
R233
IFT201
C216
0.022 μF
Oscilloscope, ground
CP201
C217

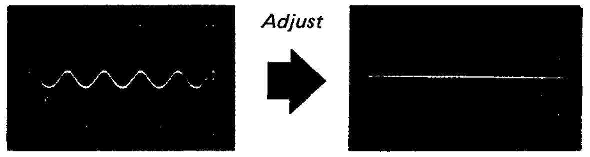
3-2. FM STEREO SEPARATION ADJUSTMENT (See p.6 for the procedure.)

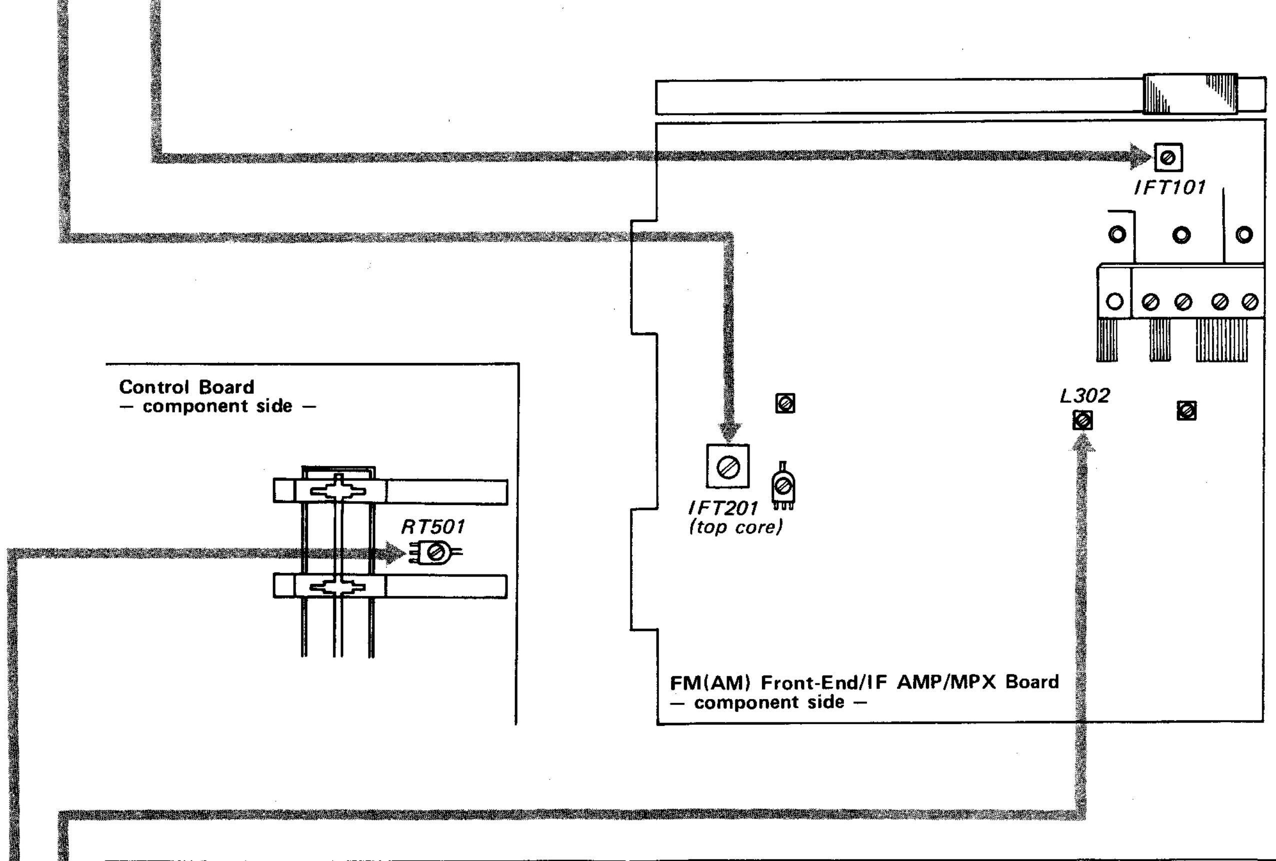
Setup:



oscilloscope
VTVM
frequency
98 MHz
output level
60 dB (1,000 μV)
stereo signal generator
STR-7035
FM ANT
REC OUT
V
IN
FUNCTION SW: FM STEREO
modulation
audio <400 Hz>: 67.5 kHz (90 %)
pilot <19 kHz>: 7.5 kHz (10 %)

FM IF AND DISCRIMINATOR

Step	Signal Generator Setting: Frequency = (center freq. of ceramic filter) Modulation	Procedure
1	FM 400 Hz 75 kHz deviation (100 %)	Tune STR-7035 to SG signal.
2	AM 400 Hz 30 %	Oscilloscope 
3	FM 400 Hz 75 kHz deviation (100 %)	Adjust for maximum reading on VTVM.



IFT101
Control Board
— component side —
RT501
IFT201
(top core)
L302
FM(AM) Front-End/IF AMP/MPX Board
— component side —

FM STEREO SEPARATION

Step		FM SG signal mode	Read receiver's output at	VTVM reading	Remarks
1	Adjust for maximum reading on VTVM.				
2	1)	L-CH	L-CH REC OUT	Ⓐ	Adjust for maximum reading on VTVM.
	2)	R-CH	L-CH REC OUT	Ⓑ	
	3)	R-CH	R-CH REC OUT	Ⓒ	
	4)	L-CH	R-CH REC OUT	Ⓓ	
3	Readjust for Ⓐ – Ⓑ = Ⓒ – Ⓓ.				

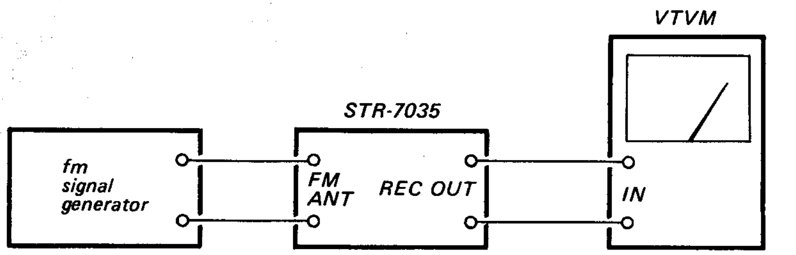
3-3. FM TRACKING ALIGNMENT

Never attempt alignment of the front-end section except for the frequency-coverage and dial-calibration adjustments. The front-end section of the tuner has been carefully adjusted at the factory, so that very little adjustment is necessary in the field.

If an rf-stage adjustment is required, ask your nearest SONY Service Station to send your unit to the Factory Service Center for a complete front-end alignment.

3-4. FM FREQUENCY COVERAGE ALIGNMENT (See p. 8 for the procedure.)

Setup:

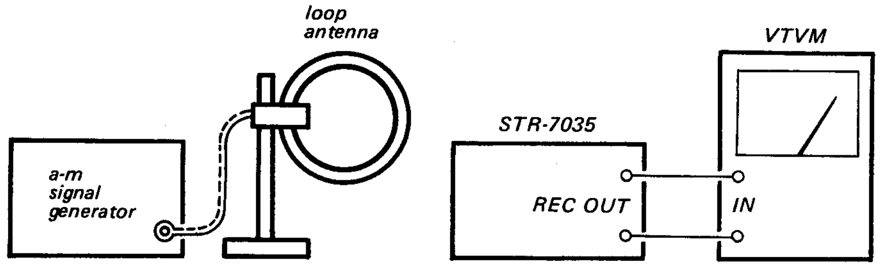

VTVM
STR-7035
fm signal generator
FM ANT
REC OUT
IN

FUNCTION SW: FM MONO

Adjust for maximum reading.

3-5 AM FREQUENCY COVERAGE AND TRACKING ALIGNMENT (See p. 8 for the procedure.)

Setup:

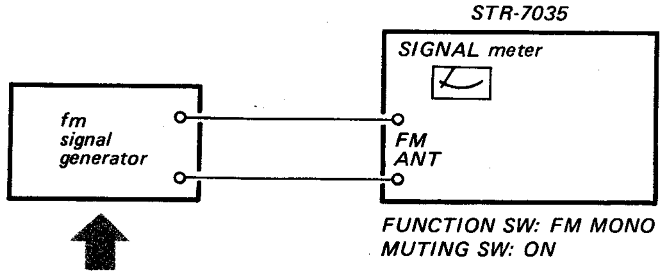

loop antenna
VTVM
STR-7035
a-m signal generator
REC OUT
IN

FUNCTION SW: AM

Adjust for maximum reading.

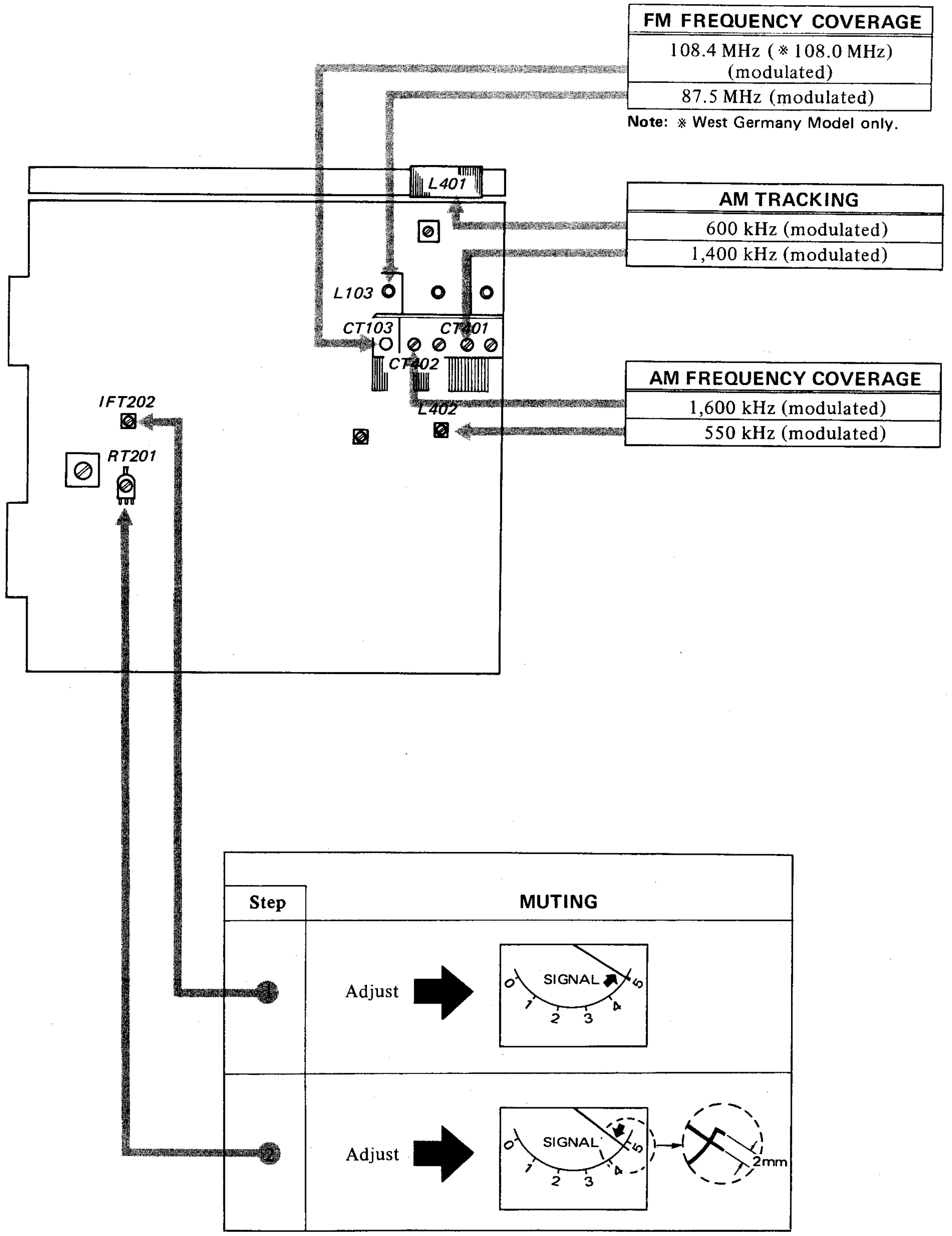
3-6. MUTING ADJUSTMENT (See p. 8 for the procedure.)

Setup:


STR-7035
SIGNAL meter
fm signal generator
FM ANT

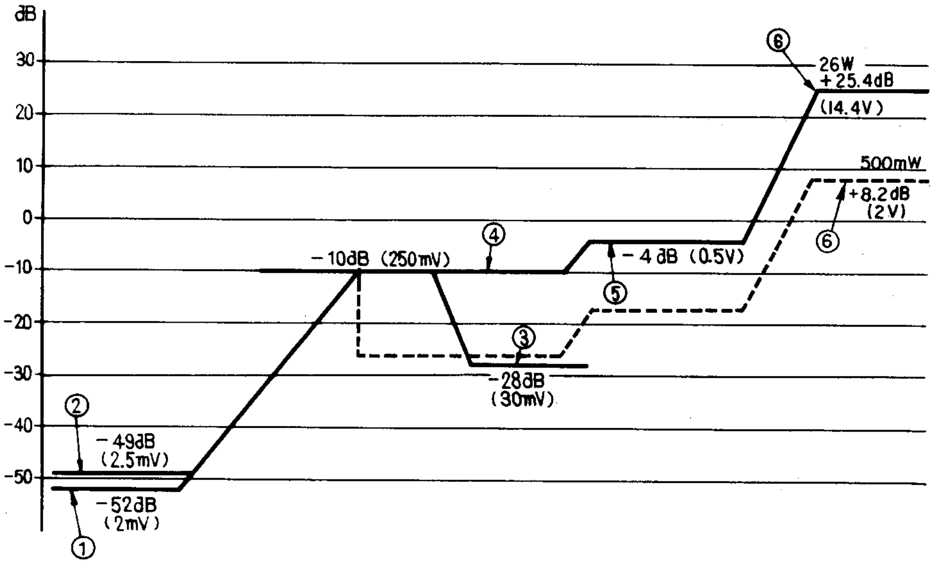
FUNCTION SW: FM MONO
MUTING SW: ON

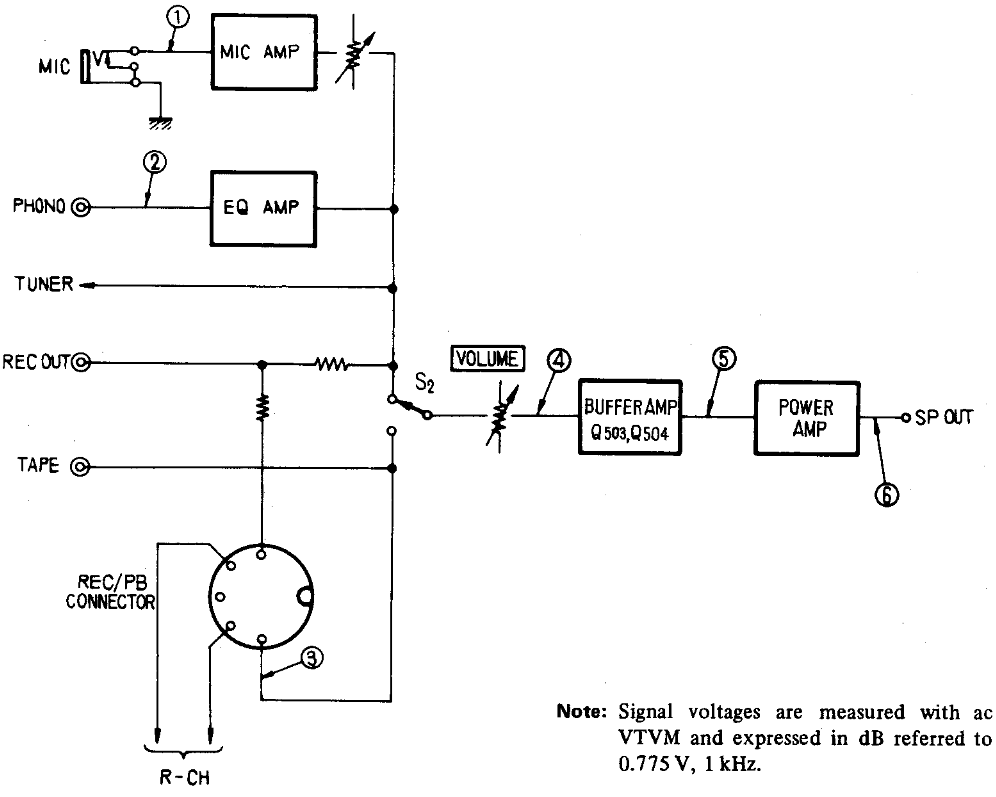
frequency
93 MHz (unmodulated)
output level
60 dB (1,000 μV)


FM FREQUENCY COVERAGE
108.4 MHz (* 108.0 MHz) (modulated)
87.5 MHz (modulated)
Note: * West Germany Model only.
AM TRACKING
600 kHz (modulated)
1,400 kHz (modulated)
AM FREQUENCY COVERAGE
1,600 kHz (modulated)
550 kHz (modulated)
L401
L103
CT103
CT401
CT402
L402
IFT202
RT201
Step
MUTING
1
Adjust
SIGNAL
0 1 2 3 4 5
2
Adjust
SIGNAL
0 1 2 3 4 5
2mm

SECTION 4
DIAGRAMS

4-1. LEVEL DIAGRAM

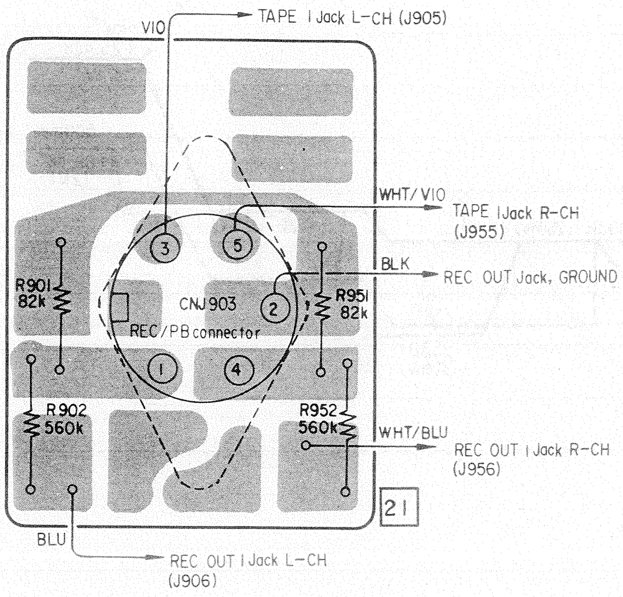


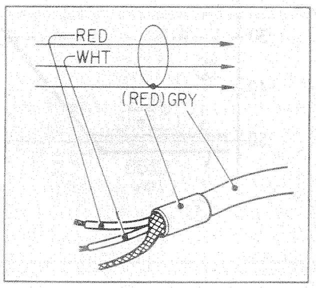

①
MIC
MIC AMP
②
PHONO
EQ AMP
TUNER
REC OUT
S_2
VOLUME
④
⑤
BUFFER AMP
Q503,Q504
POWER AMP
SP OUT
⑥
TAPE
REC/PB
CONNECTOR
③
R-CH

Note: Signal voltages are measured with ac VTVM and expressed in dB referred to 0.775 V, 1 kHz.

4-2. MOUNTING DIAGRAM – REC/PB Connector Board –

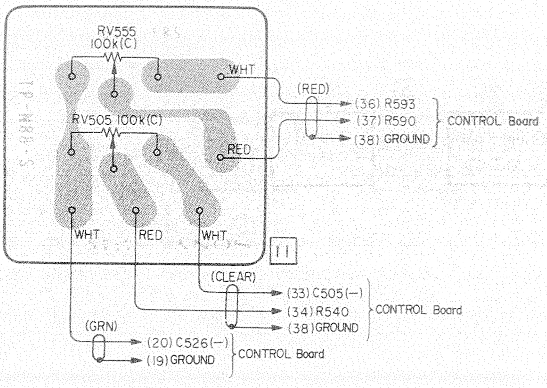
– Conductor Side –


VIO
TAPE I Jack L-CH (J905)
WHT/VIO
TAPE I Jack R-CH (J955)
BLK
REC OUT Jack, GROUND
R901 82k
R951 82k
CNJ903
REC/PB connector
3
5
2
1
4
R902 560k
R952 560k
WHT/BLU
REC OUT I Jack R-CH (J956)
21
BLU
REC OUT I Jack L-CH (J906)


RED
WHT
(RED) GRY

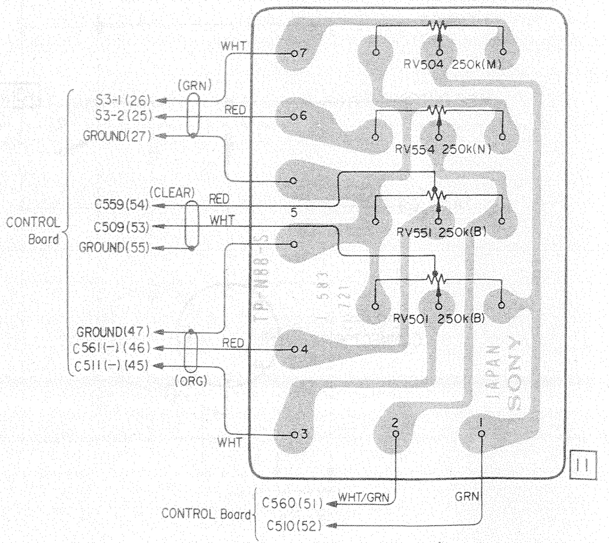
4-3. MIC Level Control Board

– Conductor Side –


RV555 100k(C)
RV505 100k(C)
1-P-N88-S
WHT
RED
(RED)
(36) R593
(37) R590
(38) GROUND
CONTROL Board
WHT
RED
WHT
11
(CLEAR)
(33) C505(–)
(34) R540
(38) GROUND
CONTROL Board
(GRN)
(20) C526(–)
(19) GROUND
CONTROL Board

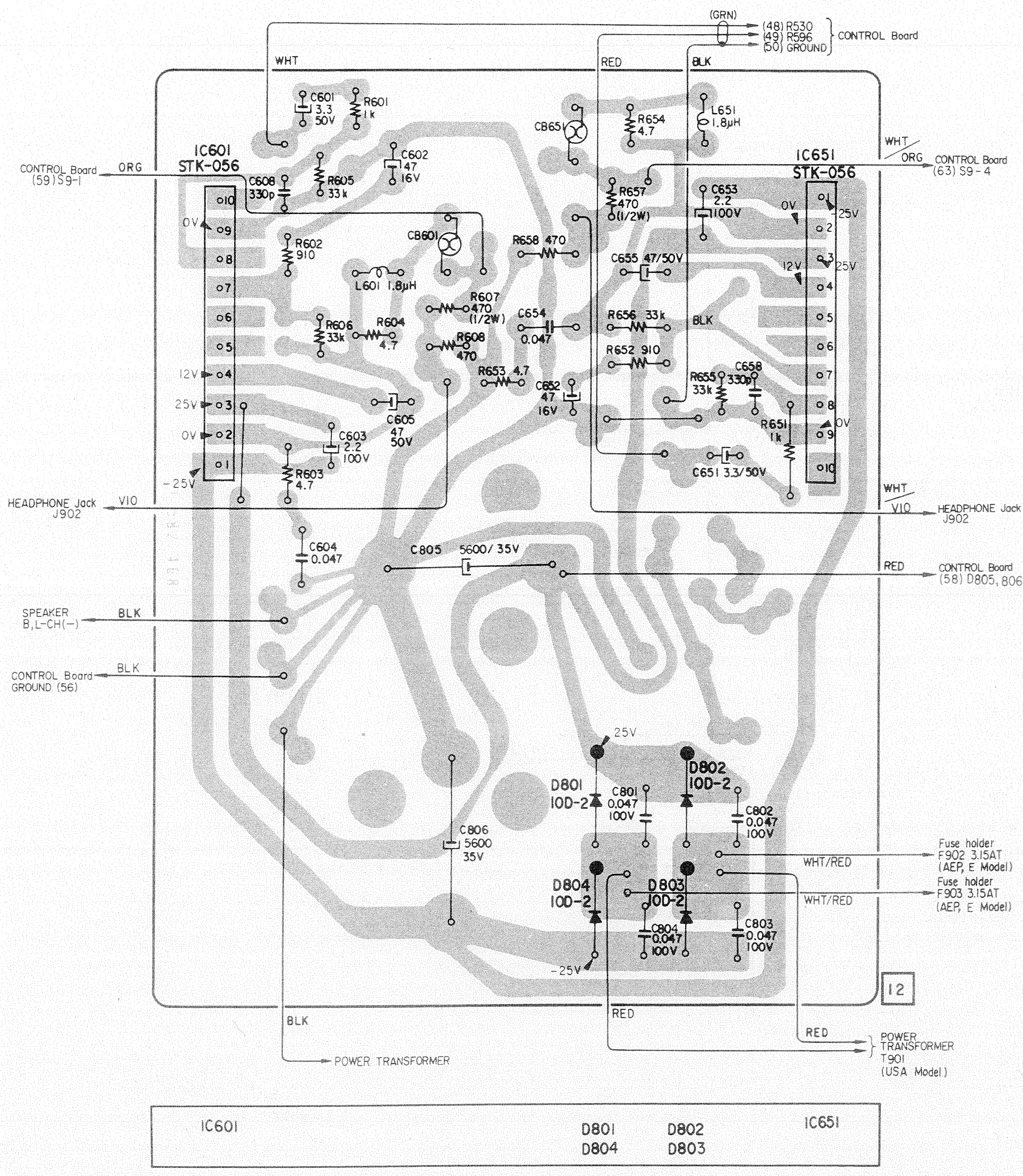
4-4. VOLUME Control Board

– Conductor Side –

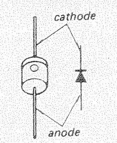

WHT
7
RV504 250k(M)
(GRN)
S3-1 (26)
S3-2 (25)
GROUND (27)
RED
6
RV554 250k(N)
(CLEAR)
C559 (54)
C509 (53)
GROUND (55)
RED
WHT
5
CONTROL Board
RV551 250k(B)
1-P-N88-S
RV501 250k(B)
GROUND (47)
C561(–) (46)
C511(–) (45)
RED
4
(ORG)
JAPAN
SONY
WHT
3
2
1
11
CONTROL Board
C560 (51)
C510 (52)
WHT/GRN
GRN

4-5. MOUNTING DIAGRAM – Power Amp/Power Supply Board –

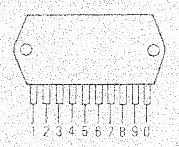
– *Conductor Side* –


(GRN)
(48) R530
(49) R596
(50) GROUND
CONTROL Board
WHT
RED
BLK
C601 3.3 50V
R601 1k
CB651
R654 4.7
L651 1.8μH
IC601 STK-056
C602 47 16V
C608 330p
R605 33k
CONTROL Board (59) S9-1
ORG
IC651 STK-056
WHT/ORG
CONTROL Board (63) S9-4
R602 910
CB601
R658 470
R657 470 (1/2W)
C653 2.2 100V
C655 47/50V
L601 1.8μH
R607 470 (1/2W)
C654 0.047
R606 33k
R604 4.7
R608 470
R656 33k
R652 910
R653 4.7
C652 47 16V
R655 33k
C658 330p
R651 1k
C605 47 50V
C603 2.2 100V
R603 4.7
C651 3.3/50V
0V
12V
25V
-25V
HEADPHONE Jack J902
VI0
C604 0.047
C805 5600/35V
CONTROL Board (58) D805, 806
SPEAKER B, L-CH(–)
CONTROL Board GROUND (56)
D801 10D-2
C801 0.047 100V
D802 10D-2
C802 0.047 100V
C806 5600 35V
D804 10D-2
D803 10D-2
C804 0.047 100V
C803 0.047 100V
WHT/RED
Fuse holder F902 3.15AT (AEP, E Model)
Fuse holder F903 3.15AT (AEP, E Model)
12
POWER TRANSFORMER T901 (USA Model)
POWER TRANSFORMER
IC601
IC651
D801
D804
D802
D803

10D-2


cathode
anode

STK-056


1 2 3 4 5 6 7 8 9 0

Note:

All resistance values are in ohms. k = 1,000, M = 1,000 k

All capacitance values are in μF except as indicated with p, which means μμF.

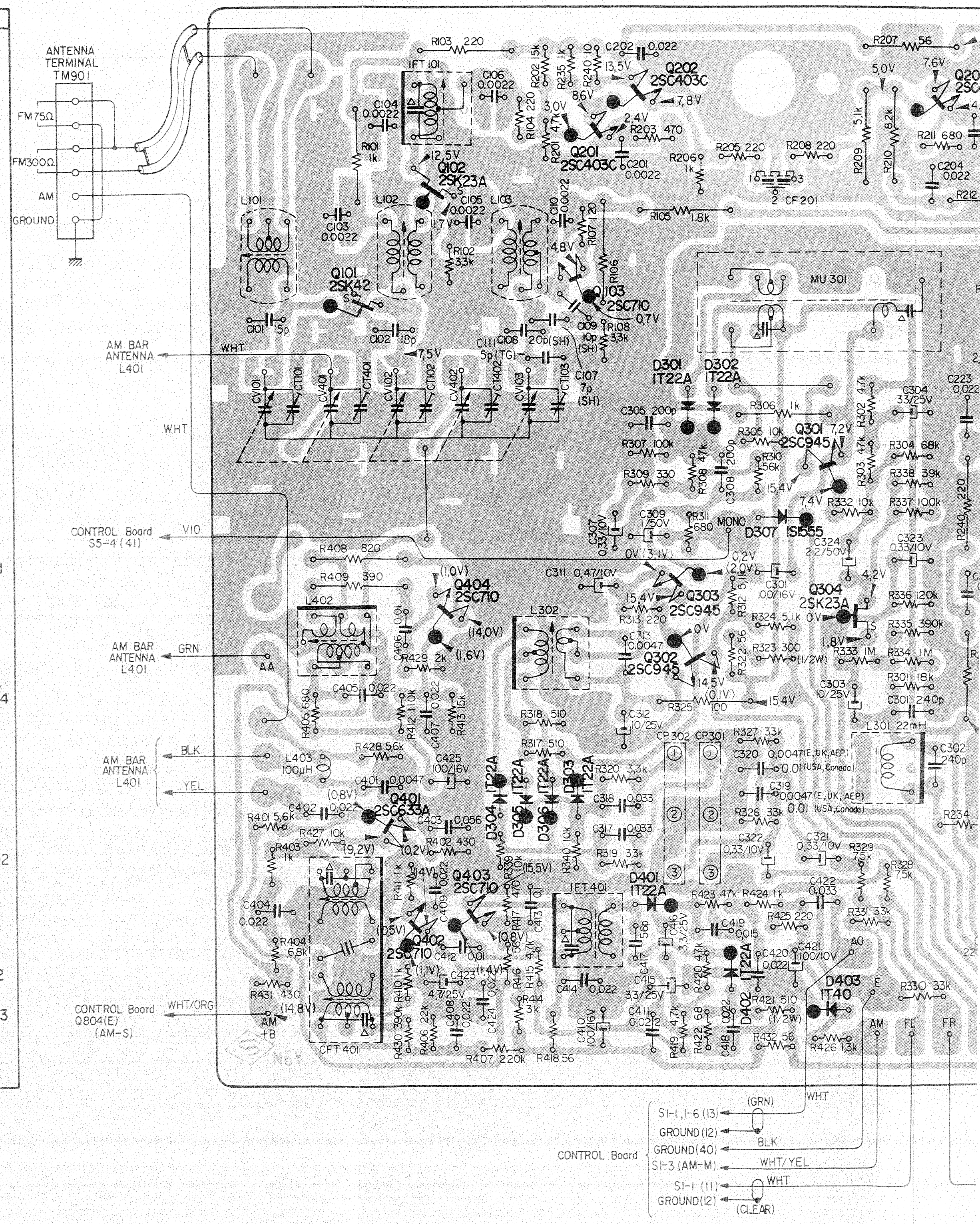
All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

Voltage variations may be noted due to normal production tolerances.

4-6. MOUNTING DIAGRAM – Fm(A-m) Front End/I-f Amp/MPX Board –

– *Conductor Side* –

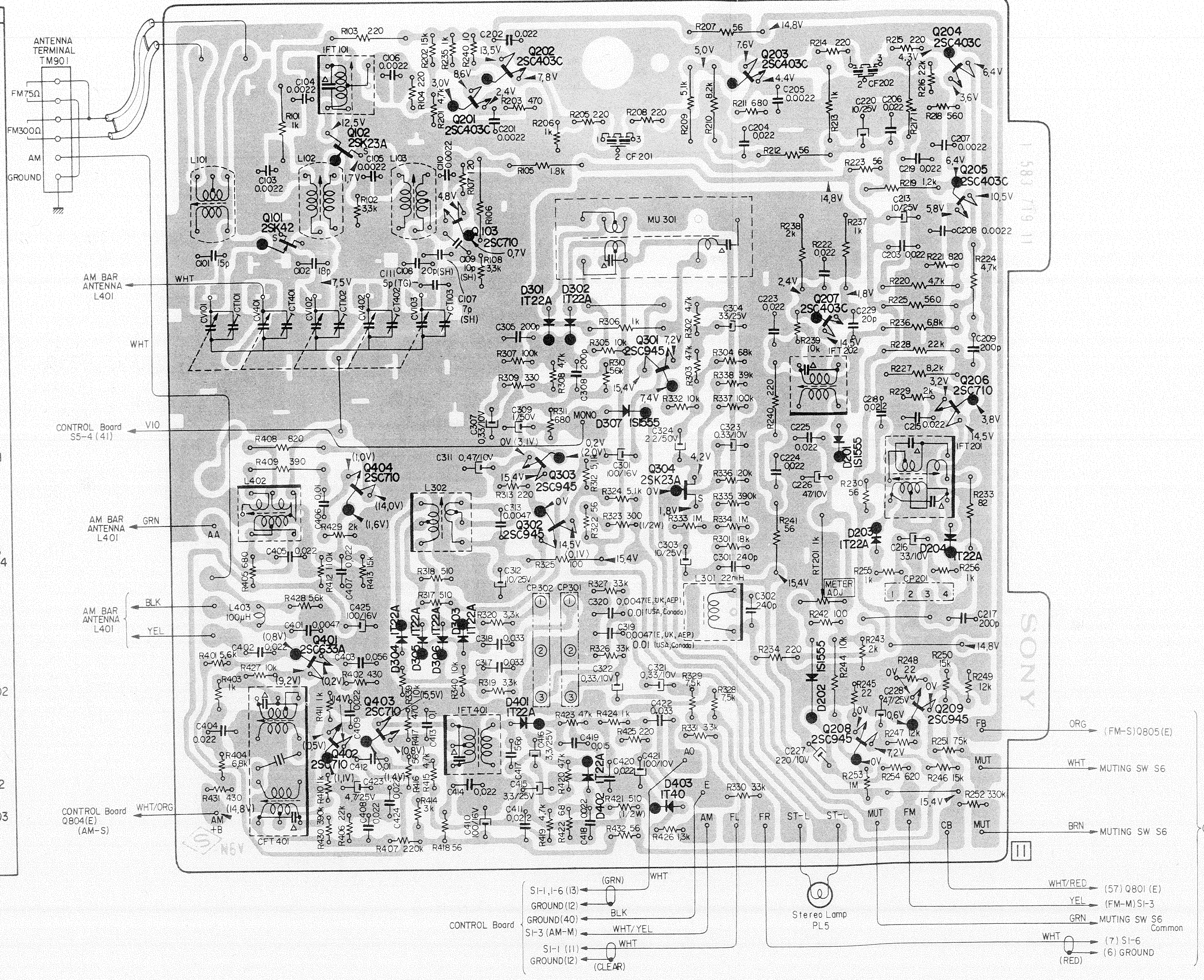
ADJ	Q	D
IFT101	202 203 204 201	
L101 L102 L103	102 205 103 101	
CT101 CT401 CT102 CT402 CT103	207 301	301 302
IFT202	206	307 201
IFT201	303 404 304	
L402 L302	302	203 204
RT201		
L301	401	304 305 306 303 202
IFT401 CFT401	209 403 402 208	401 402 403


ANTENNA TERMINAL TM901
FM75Ω
FM300Ω
AM
GROUND
AM BAR ANTENNA L401
WHT
CONTROL Board S5-4 (41)
VI0
GRN
BLK
YEL
CONTROL Board Q804(E) (AM-S)
WHT/ORG
IFT101
L101
L102
L103
Q101 2SK42
Q102 2SK23A
Q103 2SC710
Q201 2SC403C
Q202 2SC403C
CF201
MU301
D301 1T22A
D302 1T22A
Q301 2SC945
Q302 2SC945
Q303 2SC945
Q304 2SK23A
D307 1S1555
Q404 2SC710
L402
L302
L301 22mH
Q401 2SC633A
Q402 2SC710
Q403 2SC710
IFT401
CFT401
D401 1T22A
D402 1T22A
D403 1T40
CP302
CP301
AM
FL
FR
CONTROL Board
S1-1, I-6 (13)
GROUND (12)
GROUND (40)
S1-3 (AM-M)
S1-1 (11)
GROUND (12)
(GRN)
BLK
WHT/YEL
WHT
(CLEAR)

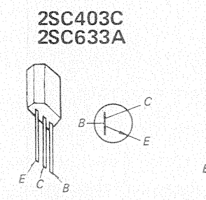
4-6. MOUNTING DIAGRAM – Fm(A-m) Front End/I-f Amp/MPX Board –

– Conductor Side –

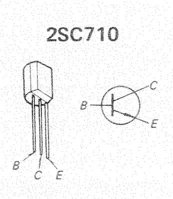
ADJ	Q	D
IFT101	202 203 204 201 102	
L101 L102 L103	205 103 101	
CT101 CT401 CT102 CT402 CT103	207 301	301 302
IFT202	206	307 201
IFT201	303 404 304	
L402 L302	302	203 204
RT201		
L301	401	304 305 306 303 202
IFT401 CFT401	209 403 402 208	401 402 403



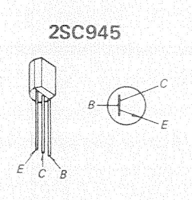
ANTENNA TERMINAL TM901
FM75Ω
FM300Ω
AM
GROUND
AM BAR ANTENNA L401
WHT
CONTROL Board S5-4 (41)
V10
GRN
AA
BLK
YEL
CONTROL Board 0804(E) (AM-S)
WHT/ORG
AM +B
IFT101
L101
L102
L103
Q101 2SK42
Q102 2SK23A
Q103 2SC710
Q201 2SC403C
Q202 2SC403C
Q203 2SC403C
Q204 2SC403C
Q205 2SC403C
Q206 2SC710
Q207 2SC403C
Q208 2SC945
Q209 2SC945
Q301 2SC945
Q302 2SC945
Q303 2SC945
Q304 2SK23A
Q401 2SC633A
Q402 2SC710
Q403 2SC710
Q404 2SC710
D201 1S1555
D202 1S1555
D203 1T22A
D204 1T22A
D301 1T22A
D302 1T22A
D303 1T22A
D304 1T22A
D305 1T22A
D306 1T22A
D307 1S1555
D401 1T22A
D402 1T22A
D403 1T40
MU 301
CF 201
CF202
IFT 202
IFT201
IFT401
CFT401
L302
L402
L301 22mH
L403 100μH
CP201
CP301
CP302
CV101
CT101
CV401
CT401
CV102
CT102
CV402
CT402
CV103
CT103
METER ADJ
R256 1k
MONO
SONY
ORG
(FM-S) 0805 (E)
WHT
MUTING SW S6
BRN
MUTING SW S6
FB
MUT
CB
AM
FL
FR
ST-L
ST-R
MUT
FM
AO
E
CONTROL Board
WHT/RED
(57) Q801 (E)
YEL
(FM-M) S1-3
GRN
MUTING SW S6 Common
(7) S1-6
(6) GROUND
(RED)
S1-1, 1-6 (13)
GROUND (12)
GROUND (40)
S1-3 (AM-M)
S1-1 (11)
GROUND (12)
(GRN)
BLK
WHT/YEL
WHT
(CLEAR)
Stereo Lamp PL5



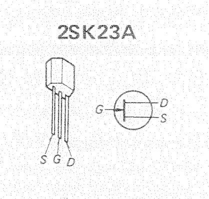
2SC403C
2SC633A
B
C
E
E C B



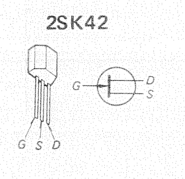
2SC710
B
C
E
B C E



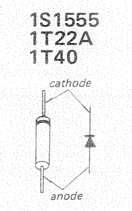
2SC945
B
C
E
E C B



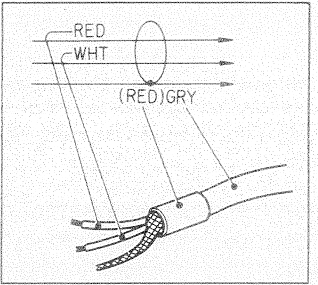
2SK23A
G
D
S
S G D



2SK42
G
D
S
G S D



1S1555
1T22A
1T40
cathode
anode



RED
WHT
(RED)GRY

Note:

All resistance values are in ohms. k = 1,000 M = 1,000 k

All capacitance values are in μF except as indicated with p, which means μμF.

All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

Voltage variations may be noted because of normal production tolerances.

( ): Am operation

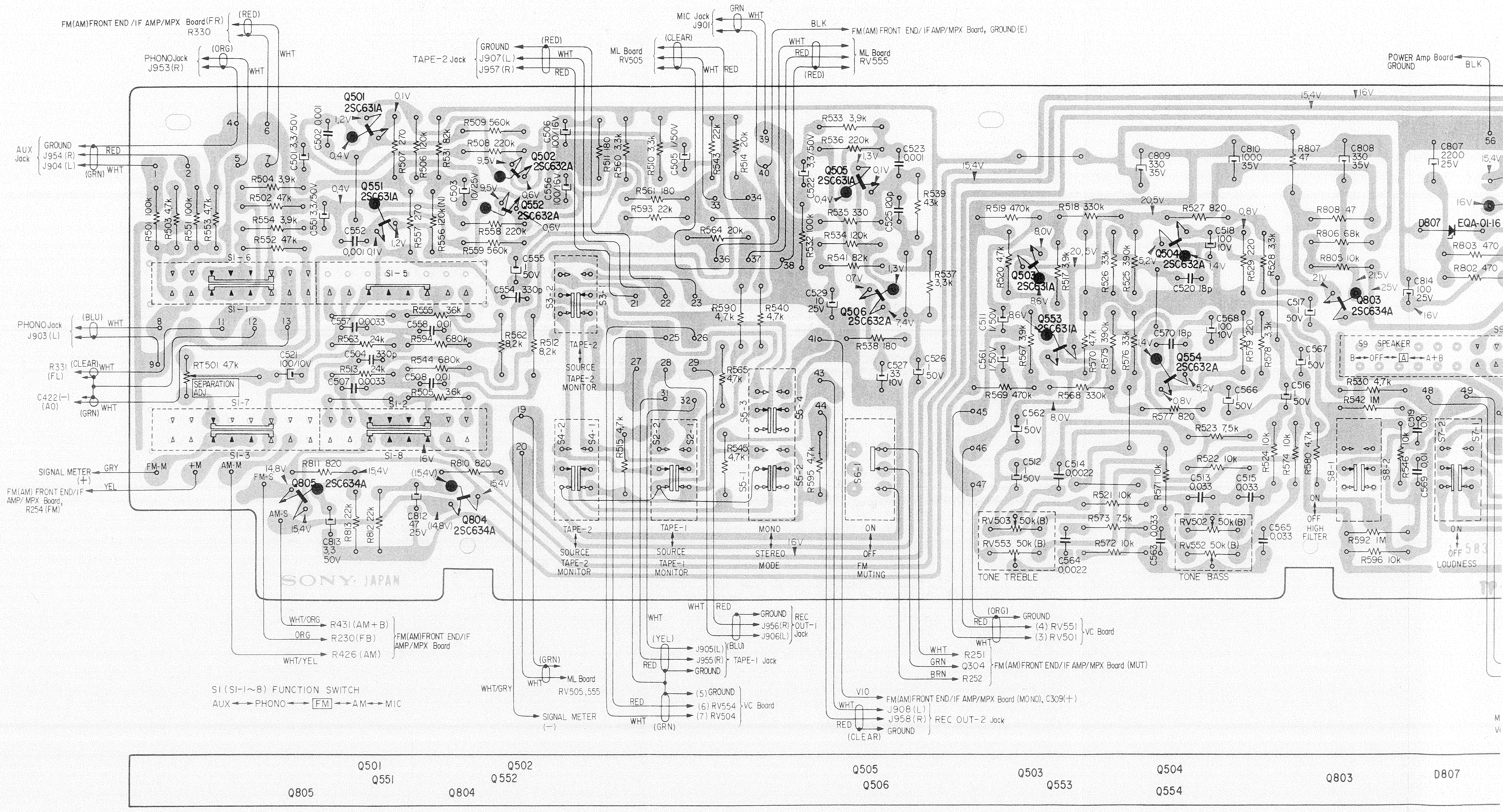
< >: STEREO operation

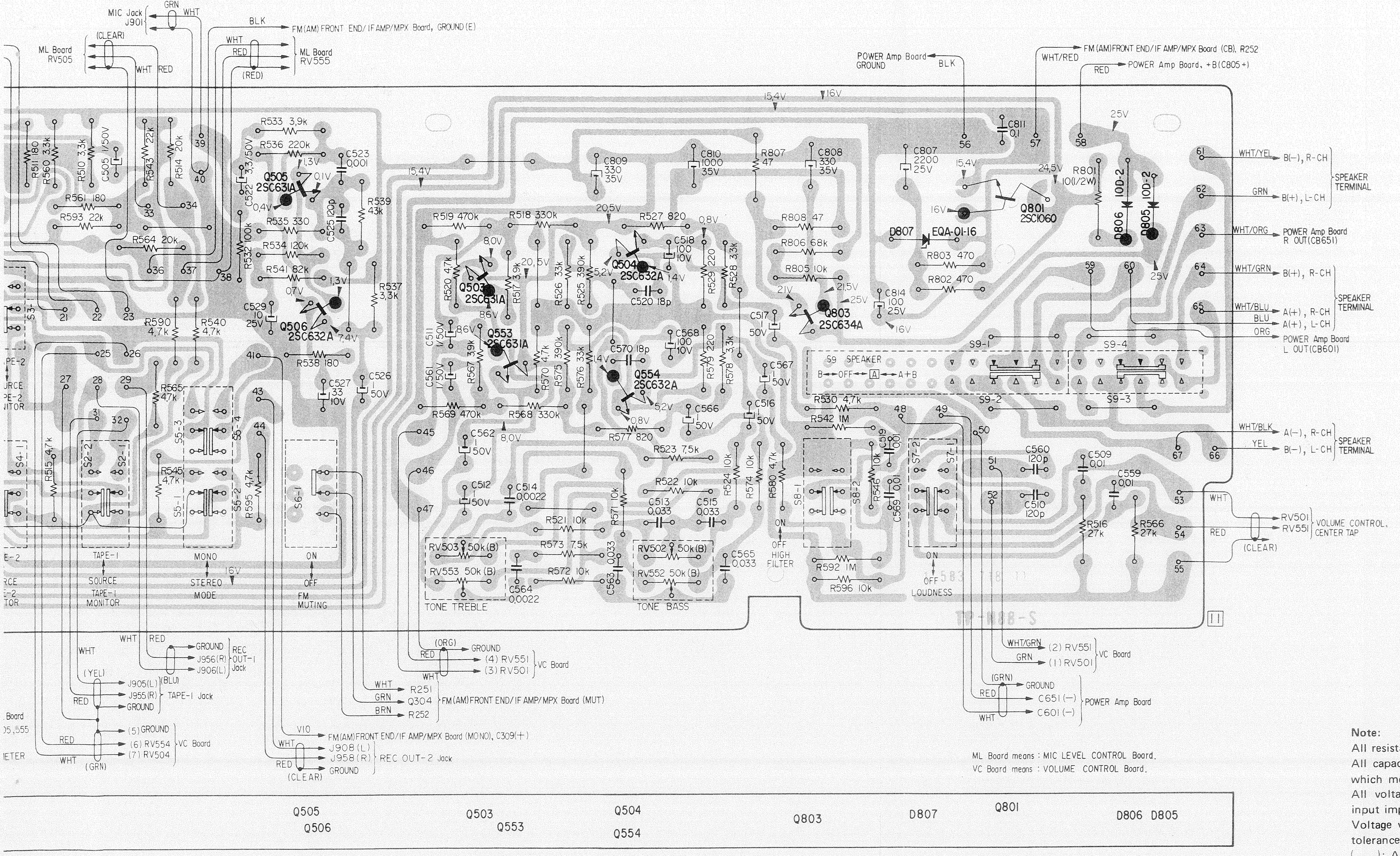
Capacitors marked △ are built in transformers.

A bold line by a coil (or a transformer) shows the face of the coil (or a transformer) with its stencilled part number.

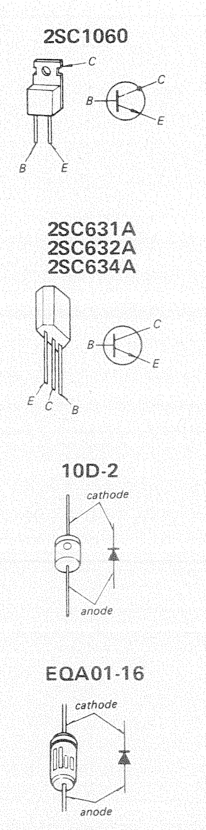
4-7. MOUNTING DIAGRAM – Control Board –

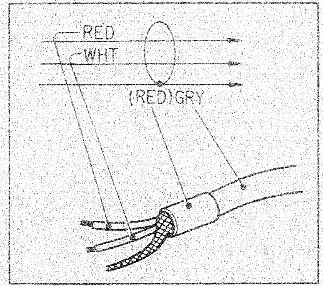
– Conductor Side –


FM(AM) FRONT END / IF AMP/MPX Board (FR) R330
PHONO Jack J953(R)
AUX Jack J954(R) J904(L)
GROUND
RED
WHT
(GRN)
(ORG)
(RED)
TAPE-2 Jack J907(L) J957(R)
MIC Jack J901
ML Board RV505
ML Board RV555
(CLEAR)
GRN
BLK
FM(AM) FRONT END/ IF AMP/MPX Board, GROUND(E)
POWER Amp Board GROUND
Q501 2SC631A
Q551 2SC631A
Q502 2SC632A
Q552 2SC632A
Q505 2SC631A
Q506 2SC632A
Q503 2SC631A
Q553 2SC631A
Q504 2SC632A
Q554 2SC632A
Q803 2SC634A
Q805 2SC634A
Q804 2SC634A
D807 EQA-01-16
R509 560k
R508 220k
R504 3.9k
R502 47k
R554 3.9k
R552 47k
R558 220k
R559 560k
R501 100k
R503 4.7k
R551 100k
R553 4.7k
R533 3.9k
R536 220k
R535 330
R534 120k
R541 82k
R537 3.3k
R539 43k
R561 180
R593 22k
R564 20k
R519 470k
R518 330k
R527 820
R807 47
R808 47
R806 68k
R805 10k
R803 470
R802 470
C809 330 35V
C810 1000 35V
C808 330 35V
C807 2200 25V
C814 100 25V
S1-6
S1-5
S1-1
S1-7
S1-2
S1-3
S1-8
S3-2
S3-1
S4-2
S4-1
S2-2
S2-1
S5-3
S5-4
S5-1
S5-2
S6-1
S8-1
S8-2
S7-1
S7-2
S9 SPEAKER B OFF A A+B
PHONO Jack J903(L)
R331 (FL)
C422(–) (A0)
RT501 4.7k SEPARATION ADJ
SIGNAL METER (+)
FM(AM) FRONT END/IF AMP/MPX Board, R254(FM)
R811 820
R810 820
TAPE-2 SOURCE TAPE-2 MONITOR
TAPE-1 SOURCE TAPE-1 MONITOR
MONO STEREO MODE
ON OFF FM MUTING
RV503 50k(B) RV553 50k(B) TONE TREBLE
RV502 50k(B) RV552 50k(B) TONE BASS
ON OFF HIGH FILTER
ON OFF LOUDNESS
SONY JAPAN
WHT/ORG R431(AM+B)
ORG R230(FB)
WHT/YEL R426(AM)
FM(AM) FRONT END/IF AMP/MPX Board
S1(S1-1~8) FUNCTION SWITCH
AUX ⟷ PHONO ⟷ FM ⟷ AM ⟷ MIC
ML Board RV505,555
SIGNAL METER (–)
REC OUT-1 Jack J956(R) J906(L)
TAPE-1 Jack J905(L) J955(R)
(5) GROUND (6) RV554 (7) RV504 VC Board
(4) RV551 (3) RV501 VC Board
R251 Q304 R252 FM(AM) FRONT END/IF AMP/MPX Board (MUT)
V10 FM(AM) FRONT END/IF AMP/MPX Board (MONO), C309(+)
REC OUT-2 Jack J908(L) J958(R)
Q501 Q551 Q502 Q552 Q805 Q804 Q505 Q506 Q503 Q553 Q504 Q554 Q803 D807


MIC Jack J901
GRN
WHT
BLK
FM(AM) FRONT END/ IF AMP/MPX Board, GROUND (E)
ML Board RV505
(CLEAR)
WHT RED
ML Board RV555
(RED)
POWER Amp Board GROUND
BLK
WHT/RED
FM (AM) FRONT END/ IF AMP/MPX Board (CB), R252
RED
POWER Amp Board, +B (C805+)
15.4V
16V
R533 3.9k
R536 220k
C523 0.001
Q505 2SC631A
Q506 2SC632A
R535 330
R534 120k
R541 82k
R537 3.3k
R538 180
C527 33 10V
C526 1 50V
R539 43k
R561 180
R593 22k
R564 20k
R590 4.7k
R540 4.7k
R565 4.7k
R545 4.7k
R515 4.7k
R595 4.7k
R519 470k
R518 330k
Q503 2SC631A
Q553 2SC631A
R527 820
Q504 2SC632A
Q554 2SC632A
C570 18p
C520 18p
R569 470k
R568 330k
R577 820
R523 7.5k
R522 10k
R521 10k
R573 7.5k
R572 10k
C513 0.033
C515 0.033
C564 0.0022
C514 0.0022
C565 0.033
RV503 50k(B)
RV553 50k(B)
RV502 50k(B)
RV552 50k(B)
TONE TREBLE
TONE BASS
C809 330 35V
C810 1000 35V
R807 47
C808 330 35V
C807 2200 25V
C811 0.1
R808 47
R806 68k
R805 10k
R803 470
R802 470
D807 EQA-01-16
Q801 2SC1060
Q803 2SC634A
C814 100 25V
R801 10 (1/2W)
D806 10D-2
D805 10D-2
25V
24.5V
S9 SPEAKER
B—OFF—A—A+B
S9-1
S9-2
S9-3
S9-4
R530 4.7k
R542 1M
R592 1M
R596 10k
C560 120p
C510 120p
C509 0.01
C559 0.01
R516 27k
R566 27k
OFF HIGH FILTER
OFF LOUDNESS
TAPE-1 SOURCE TAPE-1 MONITOR
MONO STEREO MODE
ON OFF FM MUTING
WHT/YEL B(−), R-CH
GRN B(+), L-CH
SPEAKER TERMINAL
WHT/ORG POWER Amp Board R OUT (CB651)
WHT/GRN B(+), R-CH
WHT/BLU A(+), R-CH
BLU A(+), L-CH
ORG POWER Amp Board L OUT (CB601)
WHT/BLK A(−), R-CH
YEL B(−), L-CH
WHT RV501
RED RV551
(CLEAR)
VOLUME CONTROL, CENTER TAP
WHT RED GROUND
J956(R) J906(L) REC OUT-1 Jack
J905(L) J955(R) GROUND TAPE-1 Jack
(5) GROUND (6) RV554 (7) RV504 VC Board
WHT R251 GRN Q304 BRN R252
FM (AM) FRONT END/IF AMP/MPX Board (MUT)
V10
FM (AM) FRONT END/IF AMP/MPX Board (MONO), C309(+)
J908 (L) J958 (R) GROUND REC OUT-2 Jack
(ORG) GROUND RED (4) RV551 (3) RV501 VC Board
WHT/GRN (2) RV551 GRN (1) RV501 VC Board
(GRN) GROUND RED C651 (−) WHT C601 (−) POWER Amp Board
Q505 Q506
Q503 Q553
Q504 Q554
Q803
D807
Q801
D806 D805

ML Board means : MIC LEVEL CONTROL Board.
VC Board means : VOLUME CONTROL Board.


2SC1060
C
B
E
2SC631A
2SC632A
2SC634A
10D-2
cathode
anode
EQA01-16
cathode
anode


RED
WHT
(RED) GRY

Note:

All resistance values are in ohms. k = 1,000, M = 1,000k

All capacitance values are in μF except as indicated with p, which means μμF.

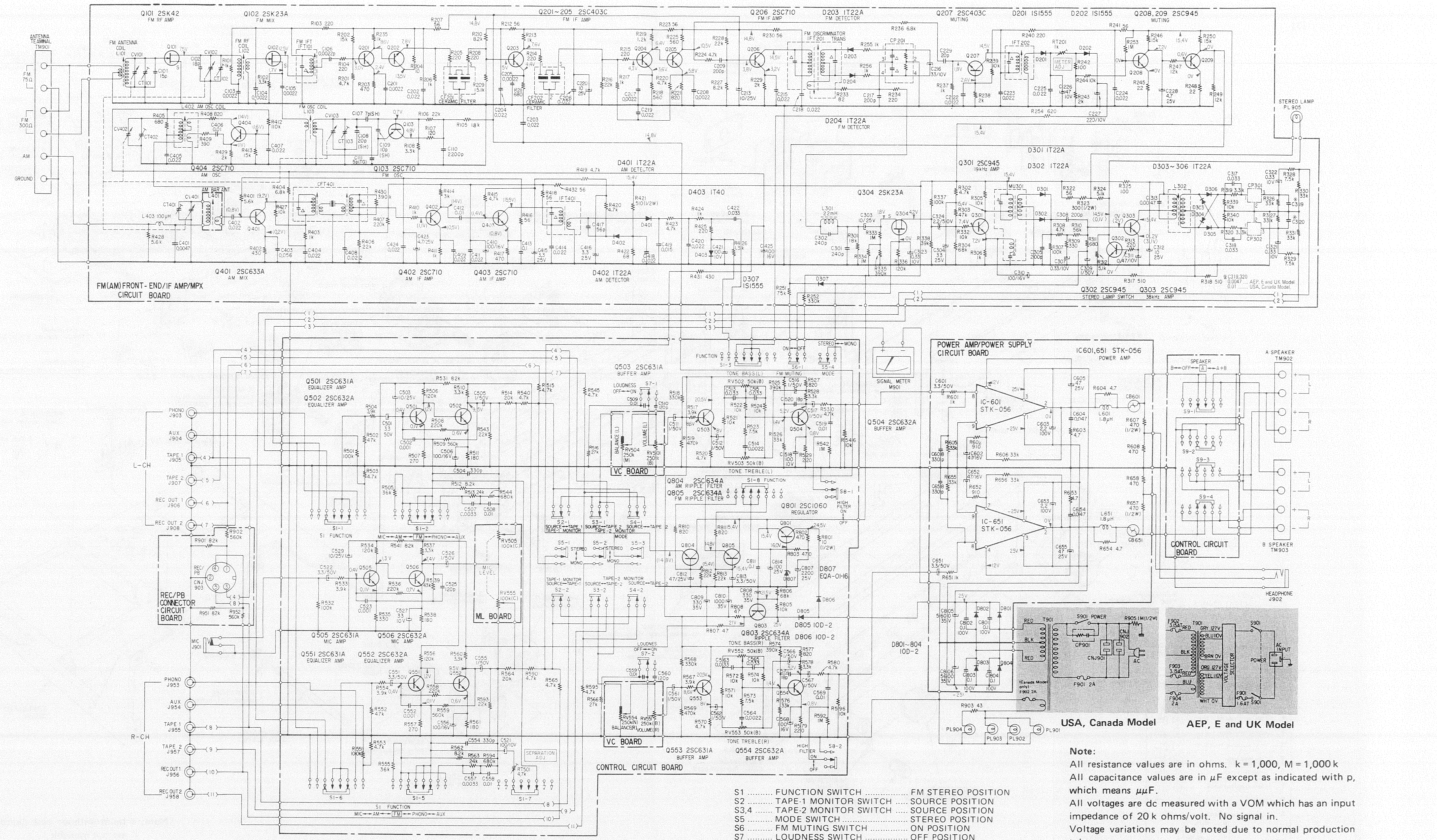
All voltages are dc measured with a VOM which has an input impedance of 20k ohms/volt. No signal in.

Voltage variations may be noted due to normal production tolerances.

( ): Am operation

< >: STEREO operation

4-8. SCHEMATIC DIAGRAM


FM(AM) FRONT-END/IF AMP/MPX CIRCUIT BOARD
POWER AMP/POWER SUPPLY CIRCUIT BOARD
CONTROL CIRCUIT BOARD
REC/PB CONNECTOR CIRCUIT BOARD
VC BOARD
ML BOARD
Q101 2SK42 FM RF AMP
Q102 2SK23A FM MIX
Q201~205 2SC403C FM IF AMP
Q206 2SC710 FM IF AMP
D203 IT22A FM DETECTOR
Q207 2SC403C MUTING
Q208, 209 2SC945 MUTING
Q404 2SC710 AM OSC
Q103 2SC710 FM OSC
Q401 2SC633A AM MIX
Q402 2SC710 AM IF AMP
Q403 2SC710 AM IF AMP
D402 IT22A AM DETECTOR
Q301 2SC945 19kHz AMP
Q304 2SK23A
Q302 2SC945 STEREO LAMP SWITCH
Q303 2SC945 38kHz AMP
Q501 2SC631A EQUALIZER AMP
Q502 2SC632A EQUALIZER AMP
Q503 2SC631A BUFFER AMP
Q504 2SC632A BUFFER AMP
Q505 2SC631A MIC AMP
Q506 2SC632A MIC AMP
Q551 2SC631A EQUALIZER AMP
Q552 2SC632A EQUALIZER AMP
Q553 2SC631A BUFFER AMP
Q554 2SC632A BUFFER AMP
Q801 2SC1060 REGULATOR
Q803 2SC634A RIPPLE FILTER
Q804 2SC634A AM RIPPLE FILTER
Q805 2SC634A FM RIPPLE FILTER
IC601, 651 STK-056 POWER AMP
SIGNAL METER M901
STEREO LAMP PL905
A SPEAKER TM902
B SPEAKER TM903
HEADPHONE J902
ANTENNA TERMINAL TM901
PHONO J903
AUX J904
TAPE 1 J905
TAPE 2 J907
REC OUT 1 J906
REC OUT 2 J908
MIC J901
L-CH
R-CH
PHONO J953
AUX J954
TAPE 1 J955
TAPE 2 J957
REC OUT 1 J956
REC OUT 2 J958
S1 FUNCTION
MIC—AM—FM—PHONO—AUX
SEPARATION ADJ
D801~804 IOD-2
D807 EQA-OH6

USA, Canada Model

AEP, E and UK Model

S1	FUNCTION SWITCH	FM STEREO POSITION
S2	TAPE-1 MONITOR SWITCH	SOURCE POSITION
S3,4	TAPE-2 MONITOR SWITCH	SOURCE POSITION
S5	MODE SWITCH	STEREO POSITION
S6	FM MUTING SWITCH	ON POSITION
S7	LOUDNESS SWITCH	OFF POSITION
S8	HIGH FILTER SWITCH	OFF POSITION
S9	SPEAKER SWITCH	A POSITION

ML BOARD = MIC LEVEL CONTROL Board
VC BOARD = VOLUME CONTROL Board

Note:

All resistance values are in ohms. k = 1,000, M = 1,000 k

All capacitance values are in μF except as indicated with p, which means μμF.

All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

Voltage variations may be noted due to normal production tolerances.

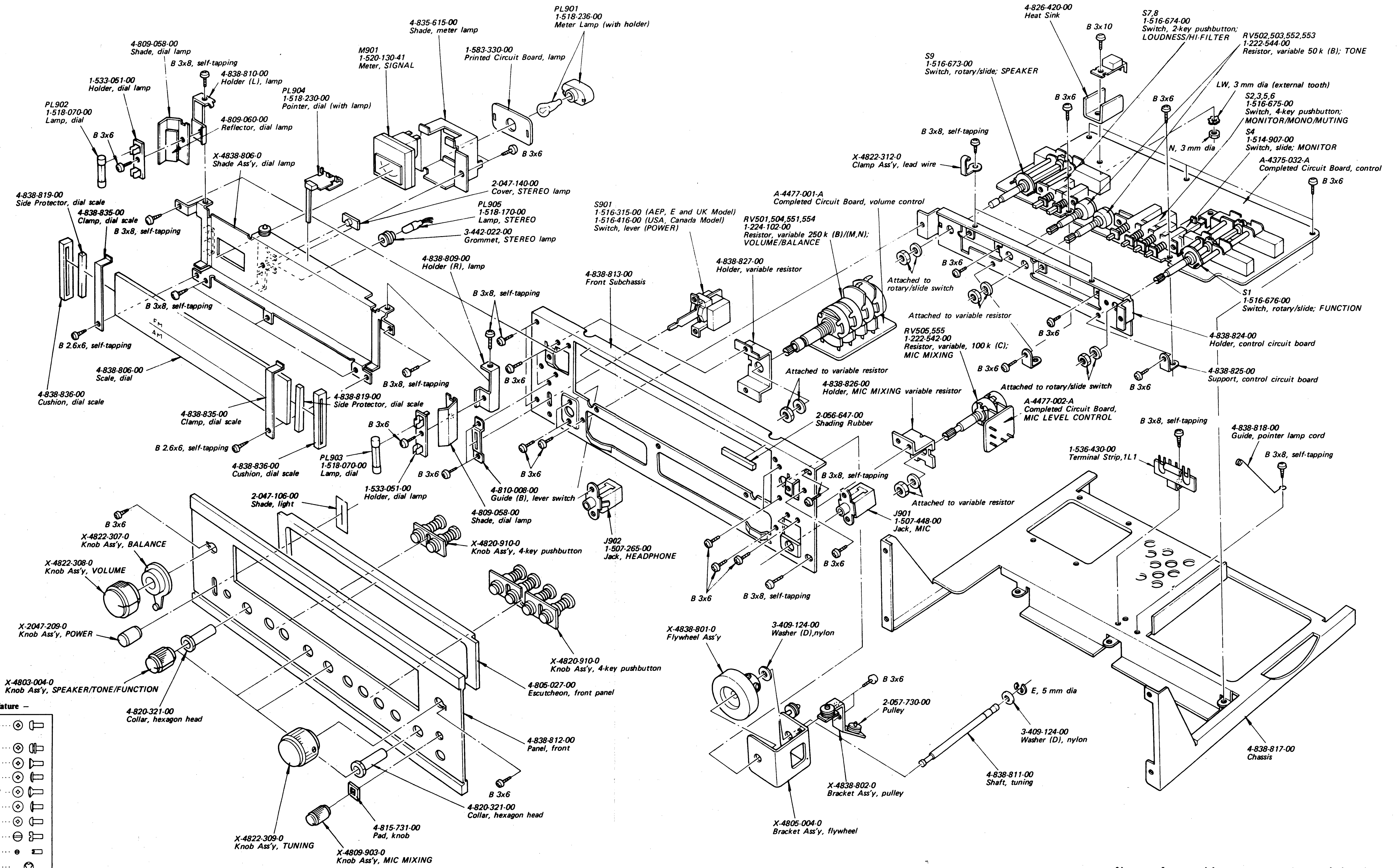
( ): Am operation

< >: STEREO operation

Capacitors marked △ are built in transformers.

SECTION 5
EXPLODED VIEWS

(1)


4-809-058-00
Shade, dial lamp
B 3x8, self-tapping
4-838-810-00
Holder (L), lamp
1-533-051-00
Holder, dial lamp
PL902
1-518-070-00
Lamp, dial
B 3x6
4-809-060-00
Reflector, dial lamp
PL904
1-518-230-00
Pointer, dial (with lamp)
X-4838-806-0
Shade Ass'y, dial lamp
M901
1-520-130-41
Meter, SIGNAL
4-835-615-00
Shade, meter lamp
1-583-330-00
Printed Circuit Board, lamp
PL901
1-518-236-00
Meter Lamp (with holder)
B 3x6
2-047-140-00
Cover, STEREO lamp
PL905
1-518-170-00
Lamp, STEREO
3-442-022-00
Grommet, STEREO lamp
4-838-819-00
Side Protector, dial scale
4-838-835-00
Clamp, dial scale
B 3x8, self-tapping
B 3x8, self-tapping
FM
AM
B 2.6x6, self-tapping
4-838-806-00
Scale, dial
4-838-836-00
Cushion, dial scale
4-838-809-00
Holder (R), lamp
B 3x8, self-tapping
4-838-813-00
Front Subchassis
B 3x8, self-tapping
B 3x6
4-838-835-00
Clamp, dial scale
4-838-819-00
Side Protector, dial scale
B 3x6
B 2.6x6, self-tapping
4-838-836-00
Cushion, dial scale
PL903
1-518-070-00
Lamp, dial
B 3x6
B 3x6
1-533-051-00
Holder, dial lamp
4-810-008-00
Guide (B), lever switch
4-809-058-00
Shade, dial lamp
2-047-106-00
Shade, light
S901
1-516-315-00 (AEP, E and UK Model)
1-516-416-00 (USA, Canada Model)
Switch, lever (POWER)
A-4477-001-A
Completed Circuit Board, volume control
RV501,504,551,554
1-224-102-00
Resistor, variable 250 k (B)/(M,N);
VOLUME/BALANCE
4-838-827-00
Holder, variable resistor
X-4822-312-0
Clamp Ass'y, lead wire
B 3x8, self-tapping
S9
1-516-673-00
Switch, rotary/slide; SPEAKER
4-826-420-00
Heat Sink
B 3x10
S7,8
1-516-674-00
Switch, 2-key pushbutton;
LOUDNESS/HI-FILTER
RV502,503,552,553
1-222-544-00
Resistor, variable 50 k (B); TONE
B 3x6
B 3x6
LW, 3 mm dia (external tooth)
S2,3,5,6
1-516-675-00
Switch, 4-key pushbutton;
MONITOR/MONO/MUTING
N, 3 mm dia
S4
1-514-907-00
Switch, slide; MONITOR
A-4375-032-A
Completed Circuit Board, control
B 3x6
B 3x6
Attached to
rotary/slide switch
Attached to variable resistor
B 3x6
S1
1-516-676-00
Switch, rotary/slide; FUNCTION
RV505,555
1-222-542-00
Resistor, variable, 100 k (C);
MIC MIXING
B 3x6
4-838-824-00
Holder, control circuit board
4-838-825-00
Support, control circuit board
Attached to rotary/slide switch
B 3x6
Attached to variable resistor
4-838-826-00
Holder, MIC MIXING variable resistor
A-4477-002-A
Completed Circuit Board,
MIC LEVEL CONTROL
2-056-647-00
Shading Rubber
B 3x8, self-tapping
1-536-430-00
Terminal Strip,1L1
4-838-818-00
Guide, pointer lamp cord
B 3x8, self-tapping
B 3x8, self-tapping
Attached to variable resistor
J901
1-507-448-00
Jack, MIC
J902
1-507-265-00
Jack, HEADPHONE
B 3x6
B 3x6
B 3x8, self-tapping
B 3x6
X-4822-307-0
Knob Ass'y, BALANCE
X-4822-308-0
Knob Ass'y, VOLUME
X-4820-910-0
Knob Ass'y, 4-key pushbutton
X-2047-209-0
Knob Ass'y, POWER
X-4820-910-0
Knob Ass'y, 4-key pushbutton
X-4803-004-0
Knob Ass'y, SPEAKER/TONE/FUNCTION
4-820-321-00
Collar, hexagon head
4-805-027-00
Escutcheon, front panel
4-838-812-00
Panel, front
B 3x6
4-820-321-00
Collar, hexagon head
4-815-731-00
Pad, knob
X-4822-309-0
Knob Ass'y, TUNING
X-4809-903-0
Knob Ass'y, MIC MIXING
X-4838-801-0
Flywheel Ass'y
3-409-124-00
Washer (D),nylon
B 3x6
2-057-730-00
Pulley
E, 5 mm dia
3-409-124-00
Washer (D), nylon
X-4838-802-0
Bracket Ass'y, pulley
X-4805-004-0
Bracket Ass'y, flywheel
4-838-811-00
Shaft, tuning
4-838-817-00
Chassis

– Hardware Nomenclature –

P – Pan Head Screw ⊕
PS – Pan Head Screw with Spring Washer ⊕
K – Flat Countersunk Head Screw ⊕
B – Binding Head Screw ⊕
RK – Oval Countersunk Head Screw ⊕
T – Truss Head Screw ⊕
R – Round Head Screw ⊕
F – Flat Fillister Head Screw ⊖
SC – Set Screw ⊖
E – Retaining Ring (E Washer)

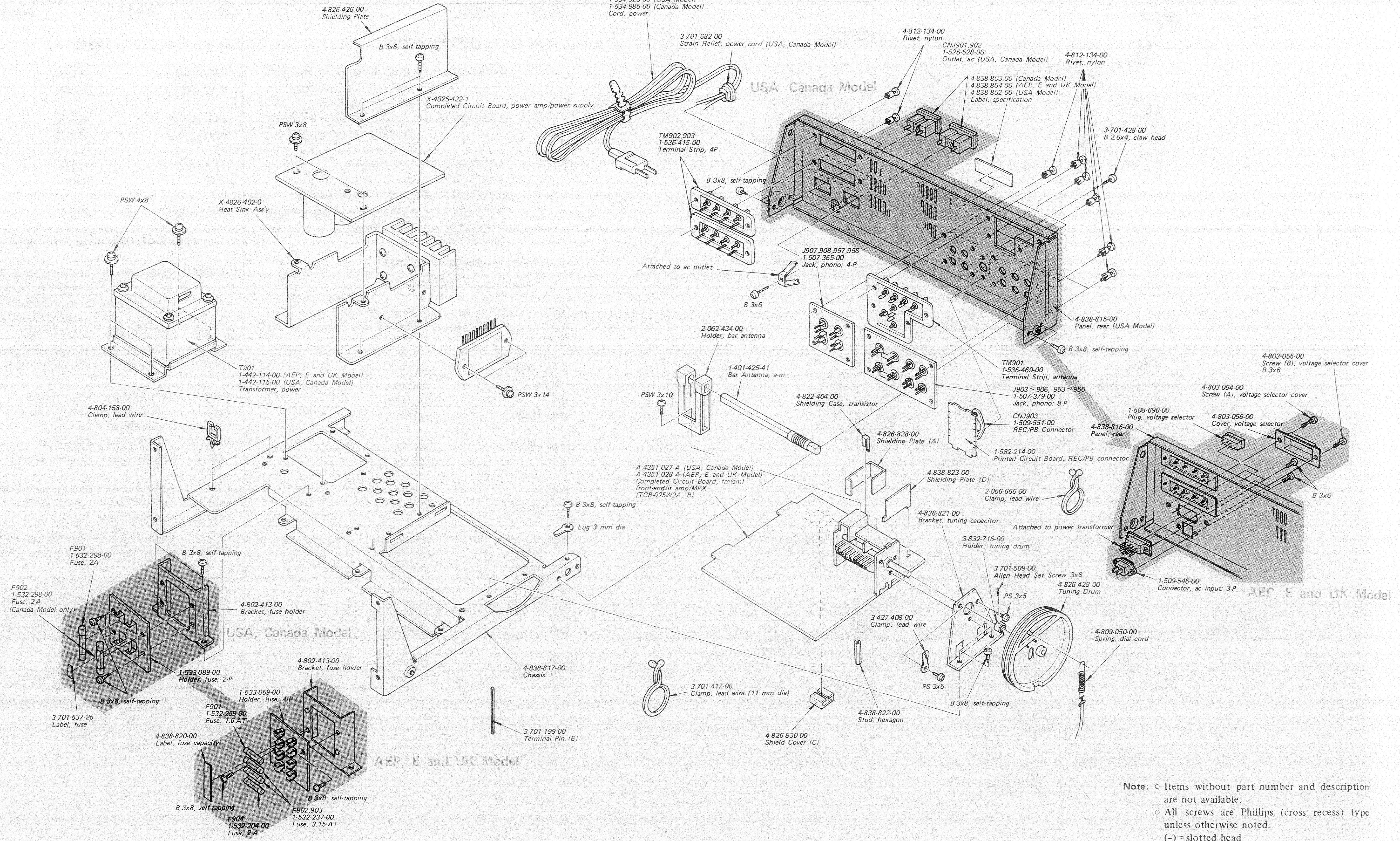
W – Washer
SW – Spring Washer
LW – Lock Washer
N – Nut

– Example –

⊕ P 3×10
- Type of Slot
- Length in mm (L)
- Diameter in mm (D)
- Type of Head

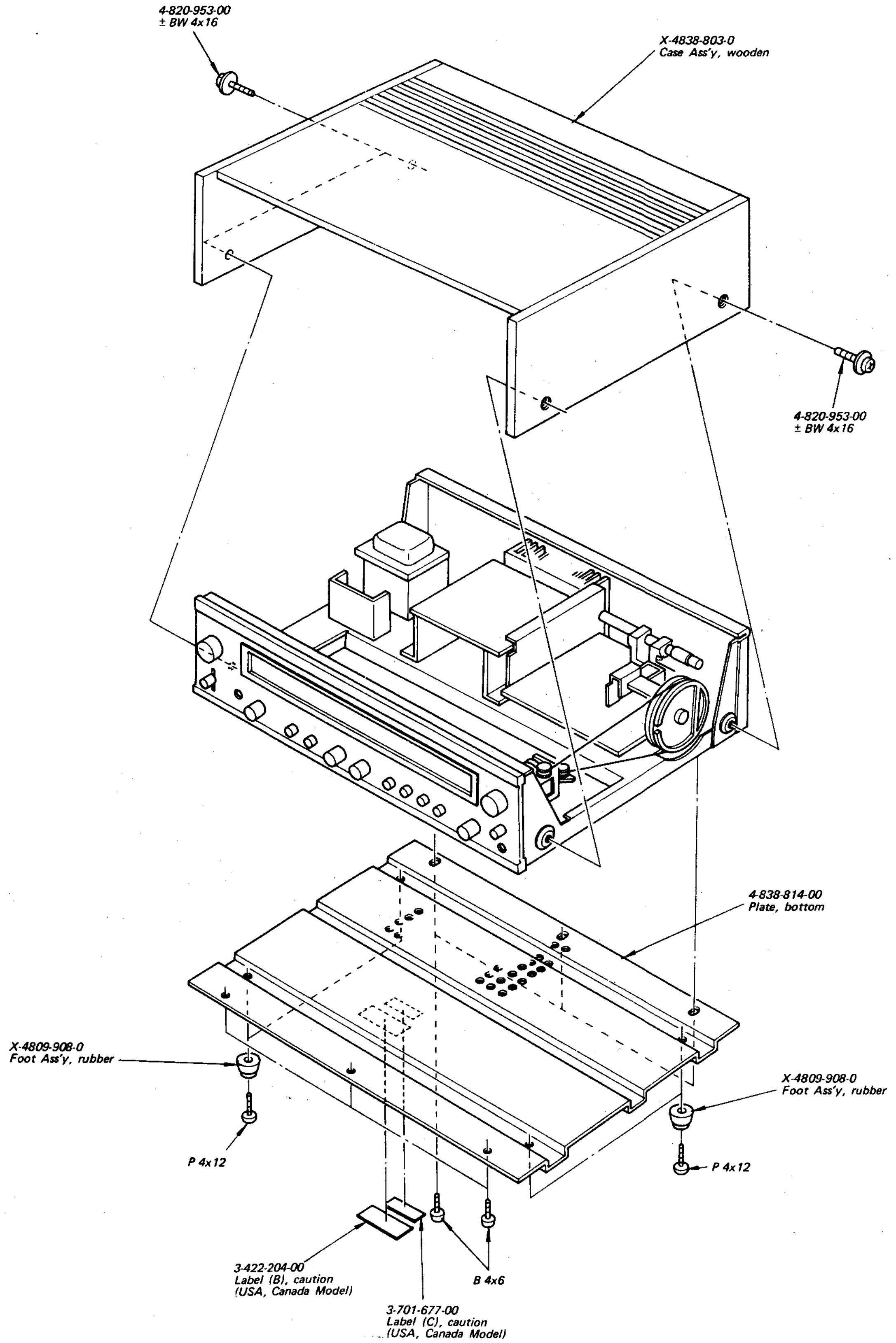
Note: ○ Items without part number and description are not available.
○ All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head

(2)


4-826-426-00
Shielding Plate
B 3x8, self-tapping
X-4826-422-1
Completed Circuit Board, power amp/power supply
PSW 3x8
PSW 4x8
X-4826-402-0
Heat Sink Ass'y
T901
1-442-114-00 (AEP, E and UK Model)
1-442-115-00 (USA, Canada Model)
Transformer, power
PSW 3x14
4-804-158-00
Clamp, lead wire
1-534-819-00 (UK Model)
1-534-526-00 (USA Model)
1-534-985-00 (Canada Model)
Cord, power
3-701-682-00
Strain Relief, power cord (USA, Canada Model)
USA, Canada Model
4-812-134-00
Rivet, nylon
CNJ901,902
1-526-528-00
Outlet, ac (USA, Canada Model)
4-838-803-00 (Canada Model)
4-838-804-00 (AEP, E and UK Model)
4-838-802-00 (USA Model)
Label, specification
4-812-134-00
Rivet, nylon
3-701-428-00
B 2.6x4, claw head
TM902,903
1-536-415-00
Terminal Strip, 4P
B 3x8, self-tapping
J907,908,957,958
1-507-365-00
Jack, phono; 4-P
Attached to ac outlet
B 3x6
4-838-815-00
Panel, rear (USA Model)
B 3x8, self-tapping
2-062-434-00
Holder, bar antenna
1-401-425-41
Bar Antenna, a-m
PSW 3x10
4-822-404-00
Shielding Case, transistor
TM901
1-536-469-00
Terminal Strip, antenna
J903 ~ 906, 953 ~ 956
1-507-379-00
Jack, phono; 8-P
CNJ903
1-509-551-00
REC/PB Connector
1-582-214-00
Printed Circuit Board, REC/PB connector
4-826-828-00
Shielding Plate (A)
A-4351-027-A (USA, Canada Model)
A-4351-028-A (AEP, E and UK Model)
Completed Circuit Board, fm(am)
front-end/if amp/MPX
(TCB-025W2A, B)
4-838-823-00
Shielding Plate (D)
2-056-666-00
Clamp, lead wire
4-838-821-00
Bracket, tuning capacitor
3-832-716-00
Holder, tuning drum
3-701-509-00
Allen Head Set Screw 3x8
PS 3x5
4-826-428-00
Tuning Drum
3-427-408-00
Clamp, lead wire
PS 3x5
4-809-050-00
Spring, dial cord
B 3x8, self-tapping
3-701-417-00
Clamp, lead wire (11 mm dia)
4-838-822-00
Stud, hexagon
4-826-830-00
Shield Cover (C)
4-803-055-00
Screw (B), voltage selector cover
B 3x6
4-803-054-00
Screw (A), voltage selector cover
1-508-690-00
Plug, voltage selector
4-803-056-00
Cover, voltage selector
4-838-816-00
Panel, rear
B 3x6
Attached to power transformer
1-509-546-00
Connector, ac input; 3-P
AEP, E and UK Model
B 3x8, self-tapping
Lug 3 mm dia
F901
1-532-298-00
Fuse, 2A
F902
1-532-298-00
Fuse, 2 A
(Canada Model only)
B 3x8, self-tapping
4-802-413-00
Bracket, fuse holder
USA, Canada Model
1-533-089-00
Holder, fuse; 2-P
B 3x8, self-tapping
3-701-537-25
Label, fuse
4-802-413-00
Bracket, fuse holder
1-533-069-00
Holder, fuse; 4-P
F901
1-532-259-00
Fuse, 1.6 AT
4-838-820-00
Label, fuse capacity
AEP, E and UK Model
B 3x8, self-tapping
B 3x8, self-tapping
F904
1-532-204-00
Fuse, 2 A
F902,903
1-532-237-00
Fuse, 3.15 AT
4-838-817-00
Chassis
3-701-199-00
Terminal Pin (E)

Note: ○ Items without part number and description are not available.
○ All screws are Phillips (cross recess) type unless otherwise noted.
(−) = slotted head

(3)


4-820-953-00
± BW 4x16
X-4838-803-0
Case Ass'y, wooden
4-820-953-00
± BW 4x16
4-838-814-00
Plate, bottom
X-4809-908-0
Foot Ass'y, rubber
X-4809-908-0
Foot Ass'y, rubber
P 4x12
P 4x12
3-422-204-00
Label (B), caution
(USA, Canada Model)
B 4x6
3-701-677-00
Label (C), caution
(USA, Canada Model)

SECTION 6
ELECTRICAL PARTS LIST

CIRCUIT BOARDS

Ref. No.	Part No.	Description
	A-4351-027-A	Fm (A-m) Front-end/I-f Amp/MPX (TCB-025W2A), complete (USA, Canada Model)
	A-4351-028-A	Fm (A-m) Front-end/I-f Amp/MPX (TCB-025W2B), complete (AEP, E and UK Model)
	A-4375-032-A	Control, complete
	A-4477-001-A	Volume Control, complete
	A-4477-002-A	MIC Level Control, complete
	X-4826-422-1	Power Amp/Power Supply, complete
	1-582-214-00	REC/PB Connector
	1-583-330-00	Lamp

SEMICONDUCTORS

Transistors

Ref. No.	Part No.	Description
Q101	2SK42 (FET)	
Q102	2SK23A (FET)	
Q103	2SC710	
Q201~Q205	2SC403C	
Q206	2SC710	
Q207	2SC403C	
Q208,Q209	2SC945	
Q301~Q303	2SC945	
Q304	2SK23A (FET)	
Q401	2SC633A	
Q402,Q403	2SC710	
Q501	2SC631A	
Q551	2SC632A	
Q502(Q552)	2SC632A	
Q503(Q553)	2SC631A	
Q504(Q554)	2SC632A	
Q505	2SC631A	
Q506	2SC632A	
Q801	2SC1060	
Q803~Q805	2SC634A	

ICs

Ref. No.	Part No.	Description
IC601(IC651)	STK-056	

Diodes

Ref. No.	Part No.	Description
D201,D202	1S1555	
D203,D204	1T22A	
D301~D306	1T22A	
D307	1S1555	
D401,D402	1T22A	
D403	1T40	
D801~D806	10D-2	

TRANSFORMERS, COILS AND INDUCTORS

Ref. No.	Part No.	Description
CFT401	1-403-830-00	I-f Trans./Ceramic Filter, 468 kHz (AEP, E and UK Model)
CFT401	1-403-150-00	I-f Trans./Ceramic Filter, 455 kHz (USA, Canada Model)
IFT101	1-403-914-00	IFT, 10.7 MHz
IFT201	1-403-291-00	Transformer, discriminator
IFT202	1-403-295-00	IFT, fm; 10.7 MHz
IFT401	1-403-149-00	IFT, 455 kHz
L101	1-401-541-00	Coil, fm antenna
L102	1-405-599-00	Coil, fm rf
L103	1-405-598-00	Coil, fm osc
L301	1-407-418-00	Inductor, shielded; 22 mH
L302	1-425-683-00	Transformer, switching
L401	1-401-425-41	Bar Antenna, a-m
L402	1-405-444-00	Coil, a-m osc
L403	1-407-169-00	Microinductor, 100 μH
L601(L651)	1-407-592-00	Microinductor, 1.8 μH
MU301	1-425-548-00	Unit, MPX
T901	1-442-114-00	Transformer, power (AEP, E and UK
	1-442-115-00	Transformer, power (USA, Canada Model)

CAPACITORS

Capacitors are in μF, ceramic type unless otherwise noted. (p = μμ, elect = electrolytic)
50 or less working volts are omitted except for electrolytic type.

Ref. No.	Part No.	Description
C101	1-102-951-11	15 p
C102	1-102-953-11	18 p

Ref. No.	*Part No.*	*Description*		
C103~C106	1-102-257-11	0.0022		
C107	1-102-875-11	7p		
C108	1-101-973-11	20p		
C109	1-101-978-11	10p		
C110	1-102-257-11	0.0022		
C111	1-102-872-11	5p		
C201	1-102-257-11	0.0022		
C202~C204	1-101-924-11	0.022		
C205	1-102-257-11	0.0022		
C206	1-101-924-11	0.022		
C207,C208	1-102-257-11	0.0022		
C209	1-102-977-11	200p		
C213	1-121-398-11	10	25V	elect
C215	1-101-924-11	0.022		
C216	1-121-402-11	33	10V	elect
C217	1-102-977-11	200p		
C218,C219	1-101-924-11	0.022		
C220	1-121-398-11	10	25V	elect
C222~C225	1-101-924-11	0.022		
C226	1-121-352-11	47	10V	elect
C227	1-121-420-11	220	10V	elect
C228	1-121-395-11	4.7	25V	elect
C229	1-102-958-11	20p		
C301,C302	1-107-140-11	240p		silvered mica
C303	1-121-398-11	10	25V	elect
C304	1-121-404-11	33	25V	elect
C305	1-102-977-11	200p		
C307	1-127-021-11	0.33	10V	solid aluminum
C308	1-102-977-11	200p		
C309	1-121-391-11	1	50V	elect
C310	1-121-415-11	100	16V	elect
C311	1-127-022-11	0.47	10V	solid aluminum
C312	1-121-398-11	10	25V	elect
C313	1-103-575-11	0.0047		styrol
C317,C318	1-105-679-12	0.033		mylar
C319,C320	1-105-673-12	0.01		mylar (USA, Canada Model)
C319,C320	1-105-669-12	0.0047		mylar (AEP, E and UK Model)
C321~C323	1-127-021-11	0.33	10V	solid aluminum
C324	1-123-050-11	2.2	50V	elect

Ref. No.	*Part No.*	*Description*		
C401	1-105-669-12	0.0047		mylar
C402	1-101-924-11	0.022		
C403	1-105-682-12	0.056		mylar
C404	1-101-924-11	0.022		
C405	1-105-677-12	0.022		mylar
C406	1-105-673-12	0.01		mylar
C407	1-105-677-12	0.022		mylar
C408,C409	1-101-924-11	0.022		
C410	1-121-415-11	100	16V	elect
C411	1-101-924-11	0.022		
C412	1-101-923-11	0.01		
C413	1-105-685-12	0.1		mylar
C414	1-101-924-11	0.022		
C415,C416	1-121-392-11	3.3	25V	elect
C417	1-101-884-11	56p		
C418	1-101-924-11	0.022		
C419	1-105-675-12	0.015		mylar
C420	1-105-677-12	0.022		mylar
C421	1-121-414-11	100	10V	elect
C422	1-105-679-12	0.033		mylar
C423	1-121-395-11	4.7	25V	elect
C424	1-101-924-11	0.022		
C425	1-121-415-11	100	16V	elect
C501(C551)	1-121-914-11	3.3	50V	elect
C502(C552)	1-105-661-12	0.001		mylar
C503	1-121-748-11	10	25V	elect
C504(C554)	1-102-112-11	330p		
C505(C555)	1-121-912-11	1	50V	elect
C506(C556)	1-121-415-11	100	16V	elect
C507(C557)	1-105-667-12	0.0033		mylar
C508(C558)	1-105-673-12	0.01		mylar
C509(C559)	1-105-673-12	0.01		mylar
C510(C560)	1-102-816-11	120p		
C511(C561)	1-121-912-11	1	50V	elect
C512(C562)	1-121-912-11	1	50V	elect
C513(C563)	1-105-679-12	0.033		mylar
C514(C564)	1-105-665-12	0.0022		mylar
C515(C565)	1-105-679-12	0.033		mylar
C516(C566)	1-121-912-11	1	50V	elect
C517(C567)	1-121-912-11	1	50V	elect

Ref. No.	*Part No.*	*Description*		
C518(C568)	1-121-414-11	100	10V	elect
C519(C569)	1-105-673-12	0.01		mylar
C520(C570)	1-102-957-11	18p		
C521	1-121-414-11	100	10V	elect
C522	1-121-914-11	3.3	50V	elect
C523	1-105-661-12	0.001		mylar
C525	1-102-816-11	120p		
C526	1-121-912-11	1	50V	elect
C527	1-121-402-11	33	10V	elect
C529	1-121-748-11	10	25V	elect
C601(C651)	1-121-914-11	3.3	50V	elect
C602(C652)	1-121-409-11	47	16V	elect
C603(C653)	1-123-025-11	2.2	100V	elect
C604(C654)	1-105-681-12	0.047		mylar
C605(C655)	1-123-058-11	47	50V	elect
C608(C658)	1-102-112-11	330p		
C801~C804	1-105-725-12	0.1	100V	mylar
C805,C806	1-123-135-11	5600	35V	elect
C807	1-123-067-11	2200	25V	elect
C808,C809	1-123-064-11	330	35V	elect
C810	1-121-945-11	1000	35V	elect
C811	1-105-685-12	0.1		mylar
C812	1-121-410-11	47	25V	elect
C813	1-121-914-11	3.3	50V	elect
C814	1-121-935-11	100	25V	elect

RESISTORS

All resistors are in Ω. ¼ W, ±5%, carbon resistors (except special type) are omitted.
Check schematic diagram for the resistance values.
(k = 1000, M = 1000 k)

R323	1-202-560-11	300	½W	composition
R418	1-211-516-11	56		carbon (nonflammable)
R421	1-202-566-11	510	½W	composition
R432	1-211-516-11	56		carbon (nonflammable)
R607(R657)	1-202-565-11	470	½W	composition

Ref. No.	*Part No.*	*Description*		
R801	1-244-825-11	10	½W	carbon
R905	1-202-719-11	1M	½W	composition (USA, Canada Model)
RT201	1-222-761-00	1 k, adjustable (meter adj.)		
RT501	1-222-763-00	4.7 k, adjustable (separation adj.)		
RV501 (RV551) RV504 (RV554)	1-224-102-00	250 k (B)/(M,N), variable (VOLUME, BALANCE)		
RV502 (RV552)	1-222-544-00	50 k (B), variable (BASS)		
RV503 (RV553)	1-222-544-00	50 k (B), variable (TREBLE)		
RV505 (RV555)	1-222-542-00	100 k (C), variable (MIC MIXING)		

SWITCHES

S1	1-516-676-00	Rotary/Slide (FUNCTION)
S2,S3 S5,S6	1-516-675-00	Pushbutton, 4-key (MONITOR, MONO, MUTING)
S4	1-514-907-00	Slide (MONITOR)
S7,S8	1-516-674-00	Pushbutton, 2-key (LOUDNESS, HI-FILTER)
S9	1-516-673-00	Rotary/Slide (SPEAKER)
S901	1-516-315-00 1-516-416-00	Lever (POWER) (AEP, E and UK Model) Lever (POWER) (USA, Canada Model)

FILTERS

CF201 (CF202)	1-527-220-00	Fm I-f, ceramic; 10.7 MHz

FUSES

F901	1-532-259-00 1-532-298-00	1.6 AT (AEP, E and UK Model) 2 A (USA, Canada Model)
F902	1-532-298-00	2 A (Canada Model)
F902,F903	1-532-237-00	3.15 AT (AEP, E and UK Model)
F904	1-532-204-00	2 A (AEP, E and UK Model)

LAMPS

Ref. No.	*Part No.*	*Description*
PL901	1-518-236-00	Meter
PL902 PL903	1-518-070-00	Dial, 8 V 300 mA
PL904	1-518-230-00	Pointer, dial
PL905	1-518-170-00	Stereo, 4.5 V 40 mA

MISCELLANEOUS

Ref. No.	*Part No.*	*Description*
CB601 (CB651)	1-532-380-41	Circuit Breaker, 2.2A
CNJ901 CNJ902	1-526-528-00	Outlet, ac (USA, Canada Model)
CNJ903	1-509-551-00	Connector, REC/PB
CP201	1-231-278-00	Encapsulated Component
CP301 CP302	1-231-224-00	Encapsulated Component
CP901	1-231-057-00	Encapsulated Component (USA, Canada Model)
J901	1-507-448-00	Jack, MIC
J902	1-507-265-00	Jack, HEADPHONE
J903~J906 J953~J956	1-507-379-00	Jack, phono; 8-P
J907(J957) J908(J958)	1-507-365-00	Jack, phono; 4-P

Ref. No.	*Part No.*	*Description*
M901	1-520-130-41	Meter, SIGNAL
TM901	1-536-469-00	Terminal Strip (ANTENNA)
TM902 TM903	1-536-415-00	Terminal Strip, 4-P
	1-509-546-00	Connector, ac input; 3-P (AEP, E and UK Model)
	1-508-690-00	Plug, voltage selector (AEP, E and UK Model)
	1-533-051-00	Holder, dial lamp
	1-533-069-00	Holder, fuse; 4-P (AEP, E and UK Model)
	1-533-089-00	Holder, fuse; 2-P (USA, Canada Model)
	1-534-526-00	Cord, power (USA Model)
	1-534-819-00	Cord, power (UK Model)
	1-534-985-00	Cord, power (Canada Model)
	1-536-430-00	Terminal Strip, 1L1
	1-535-089-00	Pin, terminal

ACCESSORIES AND PACKING MATERIALS

X-3701-029-0	Card Ass'y, warranty (USA Model)
X-4490-002-0	Cloth Ass'y, polishing
1-501-161-11	Ribbon Antenna, fm
1-534-754-00	Cord, power (E Model)
3-429-126-00	Bag, polyethylene; receiver
3-701-020-00	Bag, polyethylene; instruction manual
3-701-730-00	Bag, polyethylene; IBM card (USA Model)
3-701-742-00	Card, IBM (USA Model)
3-780-481-13	Manual, instruction (Canada, AEP, E and UK Model)
3-780-481-23	Manual, instruction (USA Model)
4-838-830-00	Carton
4-838-831-00	Cushion

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